

GRADE	COL	Min Thk mm	UL 94 Flame Class	RTI °C			H W I	H A I	H V T R	D 4 9 5	C T I
				EL	WI	WOI					

**DSM Engineering Plastics**

**E47960**

**Akulon – PA 66**

S223-DH, S223-EH, S223-FH

All	0.71	HB	130	100	130	4	0	1	-	-
All	1.5	V-2	130	100	130	4	0	0	-	-
All	3.0	V-2	130	100	130	2	0	0	6	0

S223-E

All	0,4	V-2	65	65	65	-	-	-	-	-
All	1.5	V-2	65	65	65	4	0	0	-	-
All	3.0	V-2	65	65	65	3	0	0	7	0

S223-F

All	1.5	V-2	65	65	65	4	0	0	-	-
All	3.0	V-2	65	65	65	3	0	0	7	0

S225-KS (h2)(j1)

All	0.38	V-0	65	65	65	-	-	-	-	-
All	0.75	V-0	130	90	120	4	0	-	-	-
All	1.5	V-0	130	90	120	4	0	-	-	-
All	3.0	V-0	130	90	120	3	0	0	5	0

S240-C

NC	3.0	V-2	65	65	65	2	0	0	5	0
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S240-CH

NC	3.0	V-2	65	65	65	-	-	-	-	-
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(h2) Virgin and regrind, from 1% to 50% by weight inclusive, have the same basic material characteristics, except for HWI

(j1) Virgin and regrind, from 1% to 100% by weight inclusive, have the same basic characteristics with respect to Flammability.

# DSM Engineering Plastics - Property Data

## Akulon<sup>®</sup> S223-F

PA66

Low/Medium Viscosity

Properties	Typical Data	Unit	Test Method
<b>MECHANICAL PROPERTIES</b>			
	dry / cond		
Tensile modulus	3400 / 1500	MPa	ISO 527-1/-2
Yield stress	90 / 60	MPa	ISO 527-1/-2
Yield strain	3.5 / 20	%	ISO 527-1/-2
Nominal strain at break	40 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	7 / 7	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	dry / cond		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
<b>ELECTRICAL PROPERTIES</b>			
	dry / cond		
Relative permittivity (100Hz)	3.2 / 10	-	IEC 60250
Relative permittivity (1 MHz)	3 / 4	-	IEC 60250
Dissipation factor (100 Hz)	60 / 1400	E-4	IEC 60250
Dissipation factor (1 MHz)	170 / 1000	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112
<b>OTHER PROPERTIES</b>			
	dry / cond		
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.4 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m <sup>3</sup>	ISO 1183

10.03.2004

 DSM Product

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**DSM ENGINEERING PLASTICS B V**  
POSTBUS 43  
6130 AA SITTARD, THE NETHERLANDS

E47960

									H	D	
		Min.		H	H	R T I			V	4	C
		Thk	Flame	W	A	Elec	Mech		T	9	T
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I
<b>Acrylonitrile Butadiene Styrene/Polycarbonate (ABS/PC), "Stapron C", furnished as pellets.</b>											
<b>CF 102</b>	ALL	1.5	V-0	2	0	60	60	60	4	7	1
		2.1	V-0, 5VB	2	0	60	60	60			
		3.0	V-0	1	0	60	60	60			
<b>CF 202</b>	ALL	1.5	V-0	3	0	60	60	60	0	7	0
		2.1	V-0, 5VB	3	0	60	60	60			
		3.0	V-0	2	0	60	60	60			
<b>CF 203</b>	ALL	1.5	V-0	-	-	60	60	60			
		3.0	V-0	-	-	60	60	60			
<b>CM 204</b>	ALL	1.5	HB	4	0	60	60	60	2	6	1
		3.0	HB	3	0	60	60	60			
<b>CM 205</b>	ALL	1.5	HB	4	0	60	60	60	2	6	1

		3.0	HB	3	0	60	60	60			
<b>CM 205 U</b>	ALL	1.5	HB	4	0	60	60	60	2	6	1
		3.0	HB	3	0	60	60	60			
<b>CM 404</b>	ALL	1.5	HB	3	0	60	60	60	2	6	2
		3.0	HB	3	0	60	60	60			
<b>CM 405</b>	ALL	1.5	HB	3	0	60	60	60	2	6	2
		3.0	HB	3	0	60	60	60			
<b>CM 405 U</b>	ALL	1.5	HB	3	0	60	60	60	2	6	2
		3.0	HB	3	0	60	60	60			
<b>CM 504</b>	ALL	1.5	HB	4	0	60	60	60	0	6	2
		3.0	HB	2	0	60	60	60			
<b>CM 505</b>	ALL	1.5	HB	4	0	60	60	60	0	6	2
		3.0	HB	2	0	60	60	60			
<b>CM 505 U</b>	ALL	1.5	HB	4	0	60	60	60	0	6	2
		3.0	HB	2	0	60	60	60			
<b>Acrylonitrile Butadiene Styrene/Polycarbonate (ABS/PC), high impact, very high flow, "Xantar C", furnished as pellets.</b>											
<b>CM 206</b>	ALL	1.5	HB	4	0	60	60	60	0	6	0
		3.0	HB	3	0	60	60	60			
<b>Polyamide (PA), glass reinforced, "Akulon", furnished as pellets.</b>											
<b>IG-S250F6</b>	NC, BK	0.4	V-0	-	-	-	-	-	1	6	2
		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	0	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>Polyamide 4/6 (PA4/6), flame retardant, "Stanyl", furnished as pellets.</b>											
<b>TE350</b>	NC, BK	0.75	V-0	4	0	130	110	110	1	7	2
		1.5	V-0	2	0	130	110	120			
		3.0	V-0	1	0	130	110	120			
<b>Polyamide 4/6 (PA4/6), glass reinforced, "Stanyl", furnished as pellets.</b>											

<b>TE200F6</b>	NC	0.9	HB	3	0	-	-	-	0	5	1
		1.5	HB	3	0	-	-	-			
		3.0	HB	0	0	-	-	-			
<b>TW200F6</b>	NC, BK	0.90	HB	3	0	140	120	120	0	5	2
		1.5	HB	3	0	140	125	130			
		3.0	HB	0	0	140	140	140			
<b>TW241F10</b>	NC, BK	0.75	HB	-	-	65	65	65			
<b>TW241F6, 46HF4130</b>											
	NC, BK	0.75	HB	-	-	65	65	65	0	5	2
		0.9	HB	3	0	140	120	120			
		1.5	HB	3	0	140	125	130			
		3.0	HB	0	0	140	140	140			
<b>TW271F6</b>	NC, BK	0.75	HB	3	0	-	-	-	3		2
		1.5	HB	0	0	-	-	-			
		3.0	HB	0	0	-	-	-			
<b>Polyamide 4/6 (PA4/6), glass reinforced, flame retardant, "Stanyl", furnished as pellets.</b>											
<b>46HF5040(h1)(j)</b>											
	ALL	0.35	V-0	-	-	65	65	65	1	7	2
		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	1	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>TE250F3(h4)(h5)</b>											
	NC, BK	0.9	V-0	4	0	130	110	110	1	7	3
		1.5	V-0	2	0	130	110	120			
		3.0	V-0	1	0	130	110	120			
<b>TE250F6(h1)(j)</b>											
	ALL	0.35	V-0	-	-	-	-	-	1	6	2

		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	0	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>TE250F8(h1)(j)</b>											
	ALL	0.35	V-0	-	-	65	65	65	1	7	2
		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	1	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>TE250F9</b>	ALL	0.75	V-0	0	0	140	110	120	1	7	2
		1.5	V-0	0	1	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>TS250F6D(h1)(j)</b>											
	ALL	0.67	V-0	-	-	140	110	120	1	6	2
		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	0	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>TS250F8(h1)</b>	ALL	0.75	V-0	0	0	140	110	120	1	7	2
		1.5	V-0	0	1	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>TW250F6</b>	NC, BK	0.75	V-0	0	0	140	120	130	1	7	3
		1.5	V-0	0	0	140	130	140			
		3.0	V-0	0	0	140	140	140			
<b>Polyamide 4/6 (PA4/6), glass reinforced, flame retardant, high flow, "Stanyl", furnished as pellets.</b>											
<b>46HF5041LW</b>	NC, BK	0.4	V-0	-	-	65	65	65	1	5	2
		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	0	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>46HF5050</b>	NC, BK	0.4	V-0	-	-	65	65	65	1	5	2

		0.75	V-0	0	0	140	110	120			
		1.5	V-0	0	0	140	125	125			
		3.0	V-0	0	0	140	130	130			
<b>Polyamide 4/6 (PA4/6), mineral reinforced, flame retardant, "Stanyl", furnished as pellets.</b>											
<b>TS250FK33</b>	NC, BK	0.75	V-0	-	-	65	65	65			
		1.5	V-0	-	-	65	65	65			
		3.0	V-0	-	-	65	65	65			
<b>Polyamide 4/6 (PA4/6), "Stanyl", furnished as pellets.</b>											
<b>TE258F6</b>	ALL	0.38	V-0	-	-	65	65	65	1	5	3
		0.75	V-0	0	0	65	65	65			
		1.5	V-0	0	0	65	65	65			
		3.0	V-0	0	0	65	65	65			
<b>TE300</b>	NC	0.90	V-2	4	0	130	-	-	0	5	0
		1.5	V-2	4	0	130	-	-			
		3.0	V-2	3	0	130	-	-			
<b>TE341</b>	NC, BK	0.75	V-2	4	0	130	-	-			0
		1.5	V-2	4	0	130	-	-			
		3.0	V-2	3	0	130	-	-			
<b>TE351</b>	NC, BK	1.5	V-0	2	0	130	-	-	1	7	2
		3.0	V-0	0	0	130	-	-			
<b>TS250F(h)(g2)</b>											
	ALL	0.75	V-0	-	-	65	65	65			
<b>TW300</b>	NC	0.75	V-2	4	0	150	115	120	1	6	1
		1.5	V-2	3	0	150	115	130			
		3.0	V-2	3	0	150	115	130			
<b>TW341</b>	NC, BK	0.75	V-2	4	0	150	115	120	1	6	2
		1.5	V-2	3	0	150	115	130			

		3.0	V-2	3	0	150	115	130		
<b>TW371</b>	NC	1.5	HB	-	-	-	-	-		
		3.0	HB	-	-	-	-	-		
<b>TW441</b>	NC	0.75	V-2	-	-	-	-	-		
		1.5	V-2	-	-	-	-	-		
		3.0	V-2	-	-	-	-	-		
<b>Polyamide 4/6 (PA4/6), furnished as pellets.</b>										
<b>TS 256F(g)(h)</b>										
	ALL	0.75	V-0	-	-	65	65	65		
<b>TW241F8</b>	NC, BK	0.75	HB	-	-	65	65	65		
<b>Polyamide 6 (PA6), glass reinforced, "Akulon", furnished as pellets.</b>										
<b>K222-KGV4</b>	ALL	0.80	V-2	3	0	140	-	130		0
		1.2	V-2	2	0	140	-	130		
		1.5	V-2	2	0	140	-	130		
		3.0	V-2	1	0	140	-	130		
<b>K224-G(a)</b>	ALL	0.75	HB	-	0	65	65	65	0	5
		1.5	HB	4	0	65	65	65		
		3.0	HB	4	0	65	65	65		
<b>K224-G(b), K224-TG(b)</b>										
	ALL	0.75	HB	-	0	65	65	65	0	5
		1.5	HB	4	0	65	65	65		
		3.0	HB	4	0	65	65	65		
<b>K224-G0, K224-TG0</b>										
	ALL	0.75	HB	3	0	65	65	65	0	5
		1.5	HB	2	0	65	65	65		
		3.0	HB	0	0	65	65	65		
<b>K224-G3</b>	ALL	0.75	HB	4	0	65	65	65	0	5
		1.5	HB	3	0	65	65	65		
		3.0	HB	3	0	65	65	65		
<b>K224-G6</b>	ALL	0.75	HB	-	0	65	65	65	0	5



		1.5	HB	4	0	65	65	65			
		3.0	HB	4	0	65	65	65			
<b>K224-HG(a)</b>	ALL	0.71	HB	3	0	140	120	140	1	6	1
		1.5	HB	1	0	140	125	150			
		3.0	HB	0	0	140	130	150			
<b>K224-HG(b)</b>	ALL	0.71	HB	3	0	140	120	140	1	6	1
		1.5	HB	1	0	140	125	150			
		3.0	HB	0	0	140	130	150			
<b>K224-HG3</b>	ALL	0.71	HB	4	0	150	120	150	1	6	1
		1.5	HB	4	0	150	125	150			
		3.0	HB	4	0	150	130	150			
<b>K224-HG6</b>	ALL	0.75	HB	2	0	140	120	140	1	6	1
		1.5	HB	1	0	140	125	150			
		3.0	HB	0	0	140	130	150			
<b>K224-HGR24</b>	BK	0.75	HB	-	-	65	65	65			2
		1.5	HB	-	-	65	65	65			
		3.0	HB	-	-	65	65	65			
<b>Polyamide 6 (PA6), glass reinforced, high flow, "Akulon", furnished as pellets.</b>											
<b>K-FG6</b>	ALL	0.75	HB	4	-	65	65	65	1	5	1
		1.5	HB	4	-	65	65	65			
		3.0	HB	4	-	65	65	65			
<b>Polyamide 6 (PA6), heat stabilized, "Akulon", furnished as pellets.</b>											
<b>F136-DH</b>	ALL	1.5	HB	4	0	65	65	65	0	7	1
		3.0	HB	3	0	65	65	65			
<b>Polyamide 6 (PA6), heat stabilized, flame retardant, "Akulon", furnished as pellets.</b>											
<b>K225-KS</b>	NC	0.38	V-0	-	-	65	65	65	0	5	0
	ALL	0.75	V-0	3	0	150	75	95			
		1.5	V-0	3	0	150	75	95			
		3.0	V-0	2	0	150	80	95			
<b>Polyamide 6 (PA6), heat stabilized, laser writable, flame retardant, "Akulon", furnished as pellets.</b>											

<b>K225-KWS</b>	ALL	0.75	V-0	4	0	150	75	95	0	5	0
		1.5	V-0	2	0	150	75	95			
		3.0	V-0	0	0	150	80	95			
<b>Polyamide 6 (PA6), mineral reinforced, "Akulon", furnished as pellets.</b>											
<b>K222-KGMV14</b>	GY	0.75	V-2	3	0	65	65	65			1
		1.5	V-2	2	0	65	65	65			
		3.0	V-2	1	0	65	65	65			
<b>K222-KMV5</b>	ALL	0.75	V-2	4	0	65	65	65			0
		1.5	V-2	4	0	65	65	65			
		3.0	V-2	3	0	65	65	65			
<b>K223-HM6</b>	ALL	0.71	HB	4	0	140	100	140	0	5	1
		1.5	HB	4	0	140	110	140			
		3.0	HB	3	0	140	120	140			
<b>K223-HMS6</b>	ALL	0.74	V-2	3	0	140	100	140	1	5	2
		1.5	V-0	2	0	140	110	140			
		3.0	V-0	1	0	140	120	140			
<b>K223-KMV6</b>	ALL	0.75 - 0.8	V-2	3	0	140	110	140			2
	GY	1.5	V-2	2	0	140	110	140			
		3.0	V-0	1	0	140	110	140			
<b>Polyamide 6 (PA6), "Akulon", furnished as pellets.</b>											
<b>F150-CZ</b>	NC	1.5	HB	4	0	65	65	65	0	7	0
		3.0	HB	4	0	65	65	65			
<b>F223-D</b>	NC	0.75	V-2	-	-	120	65	85	0	7	0
	ALL	1.5	V-2	4	0	120	65	85			
		3.0	V-2	3	0	120	70	85			
<b>F232-D</b>	ALL	1.5	HB	4	0	65	65	65	0	7	0
		3.0	HB	4	0	65	65	65			
<b>F236-C</b>	NC	1.5	HB	4	0	65	65	65	0	7	0
		3.0	HB	4	0	65	65	65			
<b>K222-D</b>	ALL	0.71	-	-	-	130	65	85	0		0

		1.5	V-2	4	0	130	70	85			
		3.0	V-2	4	0	130	70	85			
<b>K222-KWGV4</b>	GY	0.75	V-2	3	0	140	-	130			1
		1.2	V-2	2	0	140	-	130			
		1.5	V-2	2	0	140	-	130			
		3.0	V-2	1	0	140	-	130			
<b>Polyamide 6 (PA6), "Akulon Ultraflow", furnished as pellets.</b>											
<b>K-FKGS6</b>	ALL	0.75	V-0	2	0	140	110	110			1
		1.5	V-0	1	0	140	110	130			
		3.0	V-0	0	0	140	110	130			
<b>Polyamide 66 (PA66), glass reinforced, "Akulon", furnished as pellets.</b>											
<b>S223-G(a)</b>	ALL	0.71	-	4	0	65	65	65	1	5	1
		1.5	HB	3	0	65	65	65			
		3.0	HB	3	0	65	65	65			
<b>S223-G(b)</b>	ALL	0.71	-	2	0	65	65	65	1	5	0
		1.5	HB	1	0	65	65	65			
		3.0	HB	0	0	65	65	65			
<b>S223-G6</b>	ALL	0.71	-	4	0	65	65	65	1	5	1
		1.5	HB	3	0	65	65	65			
		3.0	HB	3	0	65	65	65			
<b>S223-HG(g3)</b>	ALL	0.71	HB	4	0	140	120	120	1	6	1
		1.5	HB	4	0	140	125	130			
		3.0	HB	4	0	140	130	130			
<b>S223-HG6</b>	ALL	0.71	HB	4	0	140	130	130	1	6	1
		1.5	HB	4	0	140	130	130			
		3.0	HB	3	0	140	130	130			
<b>Polyamide 66 (PA66), heat stabilized, "Akulon", furnished as pellets.</b>											
<b>S240-CH</b>	NC	3.0	V-2	-	-	65	65	65			
<b>Polyamide 66 (PA66), mineral reinforced, "Akulon", furnished as pellets.</b>											
<b>S223-HM8</b>	ALL	0.71	HB	3	0	140	130	130	0	5	0

		1.5	HB	3	0	140	130	130			
		3.0	HB	2	0	140	130	140			
<b>S224-KMV7</b>	GY	0.75	V-2	0	0	150	115	140			1
		1.5	V-1	0	0	150	120	140			
		3.0	V-0	0	0	150	125	140			
<b>Polyamide 66 (PA66), "Akulon", furnished as pellets.</b>											
<b>S223-DH, S223-EH, S223-FH</b>											
	ALL	0.71	HB	4	0	130	100	130	0	6	0
		1.5	V-2	4	0	130	100	130			
		3.0	V-2	2	0	130	100	130			
<b>S223-E</b>	ALL	0.4	V-2	-	-	65	65	65	0	7	0
		1.5	V-2	4	0	65	65	65			
		3.0	V-2	3	0	65	65	65			
<b>S223-F</b>	ALL	1.5	V-2	4	0	65	65	65	0	7	0
		3.0	V-2	3	0	65	65	65			
<b>S225-KS (h2) (j1)</b>											
	ALL	0.38	V-0	-	-	65	65	65	0	5	0
		0.75	V-0	4	0	130	90	120			
		1.5	V-0	4	0	130	90	120			
		3.0	V-0	3	0	130	90	120			
<b>S240-C</b>	NC	3.0	V-2	2	0	65	65	65	0	5	0
<b>Polyamide 66 (PA66), "Nylatron", furnished as granular material.</b>											
<b>GS-51</b>	GY	1.5	HB	-	-	65	65	65			
<b>Polyamide 66 (PA66), "NYLATRON", furnished as pellets.</b>											
<b>GS-S</b>	GY	1.5	HB	-	-	65	65	65			
<b>Polybutylene Terephthalate (PBT), 15% glass filled, 12% flame retardant, "Arnite", furnished as pellets.</b>											
<b>TV4 230 S</b>	ALL	0.75	V-2	3	1	140	130	140	2	5	2
		1.5	V-0	3	2	140	130	140			
		3.0	V-0	2	2	140	130	140			
<b>Polybutylene Terephthalate (PBT), glass reinforced, "Arnite", furnished as pellets.</b>											

<b>TV4 240</b>	ALL	0.75	HB	3	1	140	130	130	2	5	1
		1.5	HB	2	2	140	130	130			
		3.0	HB	1	2	140	130	130			
<b>TV4 240 S</b>	ALL	0.75	V-2	3	1	140	130	140	2	5	2
		1.5	V-0	2	2	140	130	140			
		3.0	V-0	2	2	140	130	140			
<b>Polybutylene Terephthalate (PBT), glass reinforced, flame retardant, "Arnite", furnished as pellets.</b>											
<b>TV4 241 SL</b>	NC	1.5	V-0	-	-	145	120	140			
<b>Polybutylene Terephthalate (PBT), glass reinforced, flame retardant, high flow, "Arnite", furnished as pellets.</b>											
<b>TV4 230 SF (h6)</b>											
	NC, BK	0.4	V-2	4	0	75	75	75	4	5	2
	ALL	0.75	V-0	3	0	130	140	130			
		1.5	V-0, 5VB	2	0	130	140	130			
		2.0	V-0, 5VA	2	0	130	140	130			
		3.0	V-0, 5VA	1	0	130	140	130			
<b>TV4 260 SF(h3)</b>											
	NC, BK	0.4	V-2	4	0	130	75	75	4	5	2
	ALL	0.75	V-0	3	0	140	150	140			
		1.5	V-0	2	0	140	150	140			
		3.0	V-0	1	0	140	150	140			
<b>Polybutylene Terephthalate (PBT), mineral reinforced, "Arnite", furnished as pellets.</b>											
<b>TM4 250</b>	NC	0.75	HB	4	0	150	115	140		5	1
		1.5	HB	3	0	150	130	140			
		3.0	HB	3	0	150	130	140			
<b>Polybutylene Terephthalate (PBT), "Arnite", furnished as pellets.</b>											
<b>T06 200 SN</b>	ALL	0.75	V-0	-	-	75	75	75			0

		3.00	V-0	-	-	75	75	75			
<b>Polybutylene Terephthalate (PBT), "ARNITE", furnished as pellets.</b>											
<b>T06 200 SNF(h)</b>											
	ALL	0.75	V-0	4	0	140	110	130	0	5	0
		1.5	V-0	3	0	140	110	130			
		3.0	V-0	2	0	140	110	130			
<b>Polybutylene Terephthalate (PBT), "Arnite", furnished as pellets.</b>											
<b>T06 200, T06 202</b>											
	ALL	0.75	HB	4	0	130	95	125	0	4	0
		1.5	HB	4	0	130	110	130			
		3.0	HB	3	0	130	110	130			
<b>T06 204 SN</b>	ALL	0.75	V-0	-	-	75	75	75			3
		3.0	V-0	-	-	75	75	75			
<b>T08 200</b>	ALL	0.75	HB	4	0	130	95	125			0
		1.5	HB	4	0	130	110	130			
		3.0	HB	3	0	130	110	130			
<b>TV4 241 SN</b>	ALL	0.75	V-2	4	0	140	130	140	0	5	3
		1.5	V-0	3	0	140	130	140			
		3.0	V-0	2	0	140	130	140			
<b>TV4 260 S</b>	ALL	0.50	V-2	-	-	75	75	75	1	5	2
		0.75	V-2	3	0	140	130	140			
		1.5	V-0	3	0	140	130	140			
		3.0	V-0	2	0	140	130	140			
<b>TV4 260 SN</b>	ALL	0.75	V-2	3	4	140	130	140			2
		1.6	V-0	2	4	140	130	140			
		3.0	V-0	1	4	140	140	140			
<b>TV4 260 SY</b>	GY	0.75	V-2	3	1	130	120	130	0	7	2
		1.5	V-0	3	1	130	120	130			
		3.0	V-0	0	1	130	120	140			
<b>TV4 261</b>	ALL	0.71	HB	3	1	140	130	140	2	5	1

		1.5	HB	2	2	140	130	140			
		3.0	HB	2	2	140	130	140			
<b>TV4 264 SN (i)</b>											
	ALL	0.4	V-2	-	-	75	75	75	4		3
		0.75	V-0	4	2	140	110	120			
		1.5	V-0	2	0	140	110	130			
		3.0	V-0	0	0	140	110	140			
<b>TV4 270</b>	ALL	0.75	-	3	2	140	130	140	2	6	1
		1.5	HB	1	2	140	130	140			
		3.0	HB	1	2	140	130	140			
<b>TV6 240</b>	ALL	0.75	-	3	2	140	130	140	2	5	1
		1.5	HB	2	2	140	130	140			
		3.0	HB	1	2	140	130	140			
<b>TV6 241 S</b>	ALL	0.75	V-2	4	1	140	130	140	2	5	2
		1.0	V-0	4	2	140	130	140			
		1.5	V-0	4	2	140	130	140			
		2.0	V-0	1	2	140	130	140			
		3.0	V-0	1	2	140	130	140			
<b>TV6 260 T</b>	GY	1.5	HB	-	-	75	75	75			
<b>TV6 264 SN</b>	BK	0.38	V-0	-	-	75	75	75	4		3
	ALL	0.75	V-0	4	2	140	110	120			
		1.5	V-0	2	0	140	110	130			
		3.0	V-0	0	0	140	110	140			
<b>Polybutylene Terephthalate (PBT), furnished as granular material.</b>											
<b>TV6 241 SN</b>	ALL	0.75	V-2	4	2	140	130	140	2	5	2
		1.0	V-0	4	2	140	130	140			
		1.5	V-0	4	2	140	130	130			
		3.0	V-0	1	2	140	130	140			
<b>Polybutylene Terephthalate/Polycarbonate (PBT/PC), glass reinforced, flame retardant, "Arnite", furnished as pellets.</b>											
<b>TV4 660 SN (r1)</b>											

	ALL	0.75	V-0	-	-	75	75	75	0	6	3
		1.5	V-0	2	0	75	75	75			
		3.0	V-0	1	0	75	75	75			
<b>Polycarbonate (PC), glass reinforced, "Xantar", furnished as pellets.</b>											
<b>15(x)(f1), 25(x)(f1), 27(x)(f1), 30(x)(f1)</b>											
	ALL	1.5	V-2	3	0	130	125	125	2	5	2
		3.0	V-2	2	0	130	130	130			
<b>Polycarbonate (PC), glass reinforced, flame retardant, "Xantar", furnished as pellets.</b>											
<b>MX 1094</b>	ALL	1.5	V-0	3	3	130	125	125	1	6	3
		3.0	V-0	2	1	130	130	130			
<b>Polycarbonate (PC), impact modified, flame retardant, "Xantar", furnished as pellets.</b>											
<b>MX 1004</b>	GY, BK	1.5	V-0	2	0	80	80	80	2	7	0
		3.0	V-0	1	0	80	80	80			
<b>Polycarbonate (PC), "Xantar", furnished as pellets.</b>											
<b>18(x)(f1), 19(x)(f1), 22(x)(f1), 24(x)(f1)</b>											
	ALL	0.75	V-2	-	-	130	125	125	2	5	2
		1.5	V-2	3	0	130	125	125			
		3.0	V-2	2	0	130	130	130			
<b>F 22 (y)(f1), F 23 (y)(f1), F 25 (y)(f1)</b>											
	ALL	1.5	V-2	2	0	130	125	125	2	6	2
		3.0	V-0	3	1	130	125	130			
<b>FC 19 (y)(f1), FC 22 (y)(f1)</b>											
	ALL	1.5	V-0	2	1	130	125	125	3	6	2
		3.0	V-0	2	0	130	125	130			
<b>MX 2042 FD(f1)</b>											
	NC	1.5	V-2	3	0	130	125	125	2	5	2
		3.0	V-2	2	0	130	130	130			
<b>Polycarbonate (PC), structural foam, "Xantar ", furnished as pellets.</b>											
<b>MX 1056(a1) (foamed)</b>											
	GY	6.0	V-0,	-	-	80	80	80			



			5VA									
<b>SF 22(a1)</b>	ALL	4.8	V-0, 5VA	-	-	80	80	80	1	6	4	
		6.0	V-0, 5VA	2	4	80	80	80				
<b>SF 2220 (b1)</b>												
	ALL	4.8	V-0, 5VA	-	-	80	80	80				
<b>SF 2230 (d1)</b>												
	ALL	4.8	V-0, 5VA	-	-	80	80	80				
<b>Polycarbonate (PC), "Xantar ", furnished as pellets.</b>												
<b>FC 23 (y)(f1), FC 25 (y)(f1)</b>												
	ALL	1.5	V-0	2	1	130	125	125	3	6	2	
		3.0	V-0, 5VA	2	0	130	125	130				
<b>G2F 23 (y)(f1), G2F 25 (y)(f1)</b>												
	ALL	1.5	V-0	3	3	130	125	125	1	6	3	
		3.0	V-0, 5VA	2	1	130	130	130				
<b>G4F 22 (y)(f1), G4F 23 (y)(f1), G4F 25 (y)(f1)</b>												
	ALL	1.2	V-0	-	-	80	80	80	1	6	3	
		1.5	V-0	3	3	130	125	125				
		3.0	V-0	2	1	130	130	130				
<b>G6F 23 (y)(f1)</b>												
	ALL	1.5	V-0	3	4	130	125	125	0	5	3	
		3.0	V-0	2	1	130	130	130				
<b>G8F 23 (y)(f1)</b>												
	ALL	1.5	V-0	2	4	130	125	125	1	5	3	
		3.0	V-0	2	0	130	130	130				
<b>MX 1000</b>	ALL	1.5	V-0	2	1	110	85	105	2	5	2	
		2.0	5VB	2	1	110	85	105				
		3.0	V-0	0	1	110	105	110				

<b>MX 1001</b>	ALL	0.75	V-0	3	0	80	80	80	0	6	2
		1.5	V-0	2	0	80	80	80			
		3.0	V-0	2	0	80	80	80			
<b>MX 1002</b>	BK	1.2	V-1	-	-	80	80	80	2	5	2
	ALL	1.5	V-0	2	1	110	85	105			
		2.0	5VB	2	1	110	85	105			
		3.0	V-0	0	1	110	105	110			
<b>MX 1056</b>	GY	4.0	V-0, 5VA	-	-	80	80	80			
<b>MX 1060(f1), MX 1061(f1)</b>											
	ALL	1.5	V-2	3	0	130	125	125	2	5	2
		3.0	V-2	2	0	130	130	130			
<b>MX 1080</b>	ALL	1.5	V-0	3	4	80	80	80	0	5	3
		3.0	V-0	2	1	80	80	80			
<b>MX 1081(f1)</b>	ALL	1.5	V-0	3	3	130	125	125	1	6	3
		3.0	V-0, 5VA	2	1	130	130	130			
<b>MX 1082(f1)</b>	ALL	1.2	V-0	-	-	80	80	80	1	6	3
		1.5	V-0	3	3	130	125	125			
		3.0	V-0	2	1	130	130	130			
<b>MX 1092</b>	ALL	0.75	V-0	3	0	80	80	80	2	6	3
		1.5	V-0	2	3	80	80	80			
		3.0	V-0	2	3	80	80	80			
<b>MX 2003(f1)</b>	ALL	1.5	V-2	3	0	130	125	125	2	5	2
		3.0	V-2	2	0	130	130	130			
<b>MX 2007(f1)</b>	ALL	1.5	V-2	3	0	130	125	125	2	5	2
		3.0	V-2	2	0	130	130	130			
<b>MX 2015(f1)</b>	ALL	1.5	V-0	3	1	130	125	125	3	6	2
		3.0	V-0	2	0	130	125	130			
<b>Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), flame retardant, "Xantar C", furnished as pellets.</b>											

<b>CF 407</b>	ALL	1.5	V-0	3	-	60	60	60	0	7	0
		3.0	V-0	2	-	60	60	60			
<b>Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), high impact, very high flow, "Xantar C", furnished as pellets.</b>											
<b>CM 206 U</b>	ALL	1.5	HB	4	0	60	60	60	0	6	0
		3.0	HB	3	0	60	60	60			
<b>CM 406</b>	ALL	1.5	HB	4	0	60	60	60	0	7	2
		3.0	HB	3	0	60	60	60			
<b>CM 406 U</b>	ALL	1.5	HB	4	0	60	60	60	0	7	2
		3.0	HB	3	0	60	60	60			
<b>CM 506</b>	ALL	1.5	HB	3	0	60	60	60	0	7	2
		3.0	HB	3	0	60	60	60			
<b>CM 506 U</b>	ALL	1.5	HB	3	0	60	60	60	0	7	2
		3.0	HB	3	0	60	60	60			
<b>Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), "Xantar C", furnished as pellets.</b>											
<b>CE 407</b>	ALL	1.5	V-0	2	0	60	60	60	0	6	0
		3.0	V-0	1	0	60	60	60			
<b>CF 107</b>	ALL	1.5	V-0	2	0	60	60	60	0	6	1
		2.0	V-0, 5VB	2	0	60	60	60			
		3.0	V-0, 5VB	1	0	60	60	60			
<b>MC 3433</b>	ALL	1.5	V-0	3	0	60	60	60	2	6	2
		3.0	V-0	2	0	60	60	60			
<b>Polyester Elastomer, "Arnitel", furnished as pellets.</b>											
<b>PL380</b>	NC	1.5	HB	-	-	50	50	50			
		3.0	HB	-	-	50	50	50			
<b>PL460-S</b>	ALL	1.5	V-0	-	-	50	50	50			
<b>UM551, UM552</b>											
	ALL	0.75	HB	4	1	160	120	150	0	5	0
		1.5	HB	3	0	160	120	150			

		3.0	HB	2	0	160	120	150			
<b>Polyester Elastomer, furnished as pellets.</b>											
<b>EL740-S</b>	ALL	1.5	V-0	-	-	50	50	50			
		3.0	V-0	-	-	50	50	50			
<b>Polyethylene Terephthalate (PET), glass reinforced, "Arnite", furnished as pellets.</b>											
<b>AV2 343</b>	ALL	0.75	HB	4	3	130	120	125	3	5	2
		1.5	HB	3	3	130	120	125			
		3.0	HB	3	3	130	120	125			
<b>AV2 360 S</b>	ALL	0.71	V-2	3	0	150	125	140	4	6	
		1.5	V-0	0	3	150	130	140			
		3.0	V-0	0	3	150	130	140			
<b>AV2 365 SN</b>	ALL	0.75	V-0	-	-	130	120	125	0	5	3
		1.5	V-0	0	0	130	120	125			
		3.0	V-0	0	0	130	120	125			
	NC	0.4	V-0	-	-	130	120	125			
		2.1	5VA	0	0	130	120	125			
<b>AV2 370, AV2 372</b>											
	ALL	0.75	HB	2	3	150	120	130	3	5	2
		1.5	HB	1	3	150	125	130			
		3.0	HB	0	3	150	130	130			
<b>AV2 390</b>	ALL	0.81	HB	2	4	150	120	140	0	5	2
		1.5	HB	1	4	150	120	140			
		3.0	HB	0	4	150	120	140			
<b>Polyethylene Terephthalate (PET), unfilled, very high viscosity, extrusion, "Arnite", furnished as pellets.</b>											
<b>A06 101</b>	NC	0.93	HB	-	-	75	75	75	0	6	0
		1.5	HB	3	0	75	75	75			
		3.0	HB	3	0	75	75	75			
<b>Polyethylene Terephthalate (PET), "Arnite", furnished as pellets.</b>											
<b>A04 900</b>	ALL	0.75	HB	4	0	75	75	75	2	5	1
		1.5	HB	3	0	75	75	75			

		3.0	HB	3	0	75	75	75
<b>Thermoplastic Elastomer (TPE), "Arnite", furnished as pellets.</b>								
<b>EL250</b>	NC	1.5	HB	-	-	50	50	50
<b>Thermoplastic Elastomer (TPE), polyester, "Arnitel", furnished as pellets.</b>								
<b>EL550, EM550</b>								
	NC, BK	1.5	HB	-	-	50	50	50
<b>Thermoplastic Elastomer (TPE), Polyester, "Arnitel", furnished as pellets.</b>								
<b>EL630, EM630</b>								
	NC, BK	1.5	HB	-	-	-	-	-
<b>Thermoplastic Elastomer (TPE), polyester -ester, flame retarded, "Arnitel", furnished as pellets.</b>								
<b>UM551-V</b>	NC	1.5	V-2	-	-	50	50	50
<b>Thermoplastic Elastomer (TPE), polyether-ester elastomer, "Arnitel", furnished as pellets.</b>								
<b>EL740, EM740</b>								
	NC, BK	1.5	HB	-	-	50	50	50
<b>EM460</b>	NC, BK	1.5	HB	-	-	50	50	50
<b>PL650</b>	NC, BK	1.5	HB	-	-	50	50	50

(a) - Represents 16-29% range.

(a1) - Density range 0.92 - 1.27g/cc.

(b) - Represents 31-49% range.

(b1) - Density range 1.0 - 1.35g/cc.

(d1) - Density range 1.07 - 1.27g/cc.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(g) - Denotes a single digit 4-8 incl.

- (g2) - Represents a number 2-10 excluding 8, denoting glass content range 10-50%.
- (g3) - May be replaced by a one digit number [3-8, excluding 6] representing a 31-49% glass content range.
- (h) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.
- (h1) - Virgin and regrind, up to 50% by weight inclusive, in thicknesses of 0.75mm and greater, have the same basic material characteristics, except for CTI.
- (h2) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics, except for HWI
- (h3) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics in the 0.75 mm thickness and greater, and with respect to Flammability in the 0.4 mm thickness and greater.
- (h4) - Virgin and regrind, from 0 to 50% by weight inclusive, have the same basic material characteristics, except for RTI
- (h5) - Virgin and regrind, from 0 to 100% by weight inclusive, have the same basic material characteristics, with respect to Flammability.
- (h6) - Virgin and regrind up to 50% by weight have the same flammability characteristics (>0.4 mm only) and the same basic material characteristics (>0.75 mm only) except with respect to 5VA/5VB.
- (i) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics with respect to flammability (GY, 0.75-3.0 mm only)
- (j) - Virgin and regrind, up to 100% by weight inclusive, have the same basic material characteristics with respect to Flammability in the 0.75mm thickness and greater.
- (j1) - Virgin and regrind, up to 100% by weight inclusive, have the same basic material characteristics with respect to flammability.
- (r1) - Virgin and regrind, up to 50% by weight, have the same basic material characteristics in unpigmented (NC) and black (BK) only.
- (x) - Represents one or two letters to specify the additive package, xx can be B, R, U, UR, SR, FD
- (y) - One or two letters B, R, U, UR specifying additive package.

Marking: Company name or tradename "APSCOM" , "Akulon" , "Akulon Ultraflow" , "Arnite" , "Arnitel" and material designation on container, wrapper or finished part.

**Last Updated** on 2005-02-08

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