* speed: 1 mm/min

3202458 To 3202483

MAIN CHARACTERISTICS — INDICATIVE VALUES ~

	TEST METHOD			UNITS	ALTUGLAS CN Thickness mm	Value	ALTUGLAS EX Thickness mm	Value
	ISO	NF	Others					
ELECTRICAL PROPERTIES								
Dielectric strength		C 26225	DIN 53481	KV/mm		20 to 25		20 to 25
Transverse resistivity		C 26215	DIN 53482	Ohm.cm		$> 10^{15}$		$> 10^{15}$
Dielectric constant		C 26230	DIN 53483					
to 50 Hz						3.7		3.7
to 1 MHz						2.6		2.6
THERMAL PROPERTIES								
Coefficient of linear expansion	EN 2155-1	T 51251	DIN 52328	mm/m/°C		0.065		0.065
Thermal conductivity			DIN 52612	W/m/°C		0.17		0.19
Specific heat			ASTM C 351	J/g/°C		1.32		1.32
Insulation coefficient K			DIN 4701					
3 mm thick				$W/m^2/°C$	3	5.4	3	5.4
5 mm thick				$W/m^2/°C$	5	5.1	5	5.1
10 mm thick				$W/m^2/°C$	10	4.5	10	4.5
Vicat softening point B 10/10, conditioned samples	306	T 51021	DIN 53460	°C		115		105
Heat distortion temperature under load, 1.8 N/mm^2, conditioned samples	75/A	T 51005	DIN 53461	°C		109		102
Max. continuous service temperature				°C		85		80
Forming oven temperature				°C		130-190		140-175
Max. heating temperature				°C		200		180
Max. linear shrinkage after heating, thickness ≧ 3 mm				%		2		3
Max. linear shrinkage after heating, thickness < 3 mm				%		2		6
Max. superficial temperature under infra-red				°C		220		210
FLAMMABILITY								
Self-ignition temperature				°C		approx. 450		approx. 450
Flame resistance (Radiant heat source)		P 92501			3	M4		M4
Melt behaviour when burning		P 92505			3	non-drip		drips
Flame resistance			DIN 4102			B2		B2
Flame resistance			BS 476 Pt. 7			class 3		class 4
Flame resistance			UL 94			HB		HB
Oxygen Index		T 5107	ASTM 2863 77	%		18		18
Chlorine content				%		0		0
Nitrogen content				%		< 0.02		< 0.02

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