

For detailed Information on  
**Heatshrink Tools**  
 please refer to chapter  
 application tools page 0000.



**Adhesives for moulded parts**

The newly developed W24 epoxide resin adhesive can be used in the temperature range from -75 °C to +200 °C. The moulded parts are factory-coated with W24 adhesive. In combination with the material G, i.e. as GW24, the adhesive has approval to VG 95343, Part 18 and Part 19.

The V9500 two-component adhesive with approval to VG 95343 Part 15 can be supplied in 50g cartridges for the practical P9500 dispensing guns (see page 203).

Lining with hot melt and epoxy adhesive for our range of materials on request. The LFH material H is lined with W21 (LFH) hot melt adhesive.

Material specifications

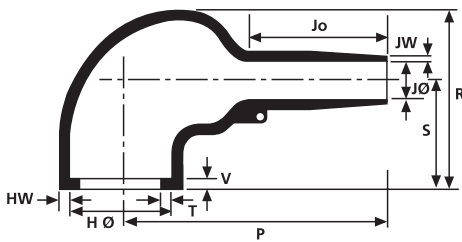
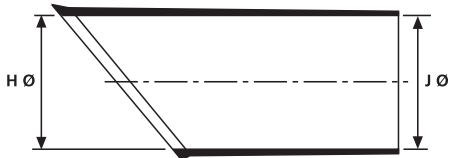
Description	G*	B7	H	L	-9
<b>Material</b>	Polyester elastomer cross-linked (PEEX)	Polyolefin, Chemically cross linked (POX)	Polyolefin, Cross-linked (POX)		
<b>Colour</b>	Black (BK)	Black (BK)	Black (BK)	Black (BK)	Black
<b>Minimum Shrink Temperature (Metric)</b>	+135 °C	+135 °C	+135 °C	+135 °C	+100 °C
<b>Operating Temperature</b>	-75 °C to +150 °C	-55 °C to +135 °C , Intermittent +225 °C	-55 °C to +105 °C	-55 °C to +200 °C	-55 °C to +120 °C
<b>Dielectric Strength (metric)</b>	14kV/mm according to ASTM D2671	16 kV/mm	15 kV/mm	9 kV/mm to ASTM D2671	20 kV/mm to ASTM D2671
<b>Flexibility</b>	Semi rigid	Semi rigid	Flexible	Flexible	Flexible
<b>Flammability</b>	VG 95343	ASTM D635	VG 95343	ASTM D635	ASTM D635
<b>Specification</b>	VG 95343 Part 6, 7, 8, 9 DEF STAN 59-97 / 3	MIL-I-81765/1 Type 1 DEF STAN 59-97 / 3	VG 95343 part 29, 30 NAVSEA 5617649 DEF STAN 59-97/3	DEF STAN 59-97/3 MIL-I-81765/4	SCX15112

\* standard material



### Helashrink 1100 Series

Right-angle, VG style shape with rib. This style provides connector cable strain relief and can be installed directly onto connector rear thread.



1152-4-G recovered on to a connector.



Space saving right-angle shapes used here in a military application.

Technical Table

Article-No.	Type	H min a	H max b	J a	J b	P ± 10%	R ± 10%	S ± 10%	JO ± 10%	HW ± 20%	JW ± 20%	V ± 10%	T ± 10%
411-08180	1108-1-G	16.5	7.9	16.5	3.8	17.3	20.1	15.2	4.1	1.0	1.0	-	-
411-08480	1108-4-G	16.5	7.9	16.5	3.8	17.3	20.1	15.2	4.1	1.0	1.0	3.0	1.0
411-52022	1152-4-G	24.0	10.5	24.0	6.0	26.0	25.0	19.0	10.0	1.3	0.5	3.0	1.0
411-54025	1154-4-G	30.0	14.5	30.0	6.0	32.0	27.0	20.0	12.0	1.5	0.8	3.0	1.0
411-55031	1155-4-G	31.0	18.0	31.0	7.0	40.0	31.0	31.0	15.0	1.8	1.0	3.0	1.0
411-56024	1155-4-G	36.0	22.5	36.0	8.5	46.0	38.0	26.0	15.0	1.8	1.0	3.0	1.0
411-57020	1157-4-G	43.0	28.5	43.0	10.0	55.0	45.0	30.0	16.0	2.0	1.0	3.0	1.7
411-58014	1158-4-G	60.0	35.0	60.0	16.0	80.0	54.0	35.0	30.0	3.3	1.5	3.0	1.7
411-59014	1159-4-G	66.0	45.0	66.0	17.0	108.0	68.0	42.0	51.0	3.8	2.0	3.0	2.0
411-60004	1160-4-G	82.0	61.0	82.0	25.0	118.0	84.0	52.0	39.0	4.0	4.0	3.0	2.0

All Dimensions in mm. Subject to technical changes.

These moulded shapes are also available in various materials from our range, eg, B7, H, L and J on request.

In addition, the moulded shapes can also be supplied with an inner coating from our range of hot-melt and epoxy adhesives, eg, W24, W1, W8 and WM250.

**a** As supplied

**b** Recovered

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