



The -100 moulded parts are designed for use with Zerohal cable and tubing for applications where hazard reduction in the event of fire is crucial. The material exhibits excellent fire safety characteristics plus low-smoke and low emission while retaining good mechanical and fluid resistant properties. Parts with adhesive lining provide location, sealing and strain relief of cable connector terminations and cable to cable transitions on harnesses used where there is a need to lower the risk. The standard colour is black.

#### Operating Temperature

- From -30°C to 105°C

#### Installation

- Minimum shrink temperature 120°C
- Recommended shrink temperature 150°C

#### Specifications & Approvals

- Def. Stan 59-97, Issue 3, Type DF (Europe)
- BSG 198 Part 5 Type DF (Europe)
- BR1326 listed Class C
- VG95343 Part 29 & 30

#### Product Characteristics, -100 material

		Specification Requirements	Test Method
Physical	Tensile strength	8 MPa (min)	ISO 37
	Ultimate elongation	200% (min)	ISO 37
	2% secant modulus	130 MPa (max)	ASTM D 882
	Specific gravity	1.5 (max)	ISO 1183
Thermal	Heat aging for 168 hrs @ 150°C	Ultimate elongation 150% (min)	ISO 188, ISO 37
	Heat shock for 4 hrs @ 225°C	No dripping, cracking or flowing	ASTM D 2671
	Low temperature flex @ -30°C	No cracking during mandrel bend	ASTM D 2671
Fire Safety Properties	Limiting oxygen index	29 min.	ISO 4589-2
	Temperature index	250°C (min)	ISO 4589-3
	Flammability	100 s (max.)	ASTM D 635
	Smoke index	20 (max.)	BSG 198 Part 5
	Toxicity index	5 (max.) per 100g	NES 713
Electrical	Electric strength	15 MV/m (min)	IEC 243
Water absorption	-	0.75% (max.) @ 23°C 3.5% (max.) @ 70°C	ISO 62
Fluid resistance	ISO 1817 Gasoline fuel	Tensile strength 5 MPa (min) Ultimate elongation 150% (min)	ISO 1817 and ISO 37 after immersion for 24 hrs @ 23°C
	Lubricating oil O-149	Tensile strength 5 MPa (min) Ultimate elongation 150% (min)	ISO 1817 and ISO 37 after immersion for 24 hrs @ 50°C
	Hydraulic fluid H515	Tensile strength 5 MPa (min) Ultimate elongation 150% (min)	ISO 1817 and ISO 37 after immersion for 24 hrs @ 23°C