

megolon S560UV

Sheathing Grade Compound

DESCRIPTION

MEGOLON™ S560UV is a thermoplastic, halogen free, fire retardant cable sheathing compound for general purpose applications. It provides improved resistance to water penetration and absorption compared to conventional halogen free compounds.

APPLICATIONS

- Optical fibre cables
- Telecommunication and data cables
- Low and high voltage power cables

TECHNICAL PROPERTIES

Primary Properties	Unit	Nominal Value	Test Method
Tensile strength	MPa	10.5	IEC 60811-1-1
Elongation at break	%	155	IEC 60811-1-1
Oxygen Index	%	36	ISO 4589-2
Density	g/cc	1.50	ASTM D-792
Melt Flow Rate (21.6 kg, 150°C)	g/10 mins.	7.5	ISO 1133

Mechanical Properties

Tear strength	N/mm	8	BS 6469:99.1
Tensile strength after 7 days at 100°C	MPa	14	IEC 60811-1-2
Variation	%	+31	
Elongation at break after 7 days at 100°C	%	140	IEC 60811-1-2
Variation	%	-11	

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Thermomechanical Properties	Unit	Nominal Value	Test Method
Hot pressure at 90°C	%	25	IEC 60811-3-1
Hot deformation at 90°C	%	8	BS 6469:99.1
Fire and Smoke Test Properties			
Flammability temperature index	°C	290	ISO 4589-3
Halogen acid gas evolution	%	ZERO	IEC 60754-1
Corrosivity of gases			IEC 60754-2
pH		6.2	
Conductivity	µS/cm	7	
Smoke density – Flaming mode	Ds max	53	ASTM E-662
Time to maximum	minutes	7	
Smoke density – Non-flaming mode	Ds max	210	ASTM E-662
Time to maximum	minutes	3	
Toxicity index		0.8	NES 713
Other Properties			
Mooney viscosity (1+4 mins, 140°C)		40	ASTM D-1646
Hardness	Shore D	55	ASTM D-2240
Ozone resistance		PASS	ASTM D-470
Gravimetric water absorption			IEC 60811-1-3
10 days at 70°C	mg/cm ²	1.0	
30 days at 70°C	mg/cm ²	1.7	
90 days at 70°C	mg/cm ²	2.4	

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