

MEGOLON™ S560UV

Thermoplastic

AlphaGary

Message:

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

General Information			
Features	Flame Retardant		
	General Purpose		
	Halogen Free		
	Moisture Resistant		
Uses	Cable Jacketing		
	Communication Cable Jacketing		
	Fiber Optic Cable		
	General Purpose		
	High Voltage Insulation		
	Low Voltage Insulation		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	7.5	g/10 min	ISO 1133
Water Absorption			IEC 60811-1-3
10 days : 70°C	10.0	g/m ²	
30 days : 70°C	17.0	g/m ²	
90 days : 70°C	24.0	g/m ²	
Hot Deformation (90°C)	8.0	%	BS 6469 99.1
Hot Pressure Test (90°C)	25	%	IEC 60811-3-1
Acid Gas Emission Conductivity	7.00	µS/cm	IEC 60754-2
Acid Gas Emission pH	6.20		IEC 60754-2
Flammability Temperature Index	290	°C	ISO 4589-3
Smoke Density			ASTM E662
Flaming mode ¹	< 53	Ds	
Non-flaming mode ²	< 210	Ds	

Toxicity	0.800		NES 713
Halogen Acid Gas Evolution	0.0	%	IEC 60754-1
Ozone Resistance	pass		ASTM D470
Draw Down	1.5:1.0		
Extruder Screw Compression Ratio	1.0:1.0 to 2.0:1.0		
Mooney Viscosity (ML 1+4, 140°C)	40	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
-- ³	14.0	MPa	IEC 60811-1-2
--	10.5	MPa	IEC 60811-1-1
Tensile Strain			
Break ⁴	140	%	IEC 60811-1-2
Break	160	%	IEC 60811-1-1
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	8.00	kN/m	BS 6469 99.1
Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (100°C, 168 hr)	31	%	
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-11	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	36	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Cylinder Zone 1 Temp.	135	°C	
Cylinder Zone 2 Temp.	140	°C	
Cylinder Zone 3 Temp.	145	°C	
Cylinder Zone 4 Temp.	150	°C	
Cylinder Zone 5 Temp.	160	°C	
Melt Temperature	165 to 175	°C	
Die Temperature	165	°C	
NOTE			
1.	Time to maximum: 7 minutes		
2.	Time to maximum: 3 minutes		
3.	after 7 days at 100°C		
4.	after 7 days at 100°C		

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