

MEGOLON S530

Alphagary - Thermoplastic

General Information

Product Description

MEGOLON® S530 is a thermoplastic, halogen free, fire retardant sheathing compound possessing very good flexibility and a low Young's Modulus. It has been specifically developed for telecommunication cable applications and exhibits a high oxygen index and enhanced fire test performance.

General

Features	• Flame Retardant	• Good Flexibility	• Halogen Free
Uses	• Cable Jacketing	• Communication Cable Jacketing	• Wire & Cable Applications
Processing Method	• Extrusion	• Wire & Cable Extrusion	

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.59		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	1.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
--	1670	psi	IEC 60811-501
-- ²	2100	psi	IEC 60811-401
Tensile Strain			
Break	180	%	IEC 60811-501
Break ²	130	%	IEC 60811-401
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	28.6	lbf/in	BS 6469 99.1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Cold Elongation (-13°F)	40	%	IEC 60811-505
Cold Impact (-13°F)	Pass		IEC 60811-506
Hot Deformation (194°F)	5.0	%	BS 6469 99.1
Hot Pressure Test (176°F)	33	%	IEC 60811-508
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (212°F, 168 hr)	26	%	
Change in Tensile Strain at Break in Air 212°F, 168 hr	-28	%	
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (50 Hz)	3.80		ASTM D150
Dissipation Factor (50 Hz)	0.014		ASTM D150
Insulation Resistance			BS 6469 99.2
68°F	6.0E+13	ohms·cm	
after 12 hours immersion in water : 68°F	1.0E+13	ohms·cm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	45	%	ISO 4589-2
Flammability Temperature Index	572	°F	ISO 4589-3