

MEGOLON™ S540E

Thermoplastic

AlphaGary

Message:

MEGOLON® S540E is a thermoplastic, halogen free cable sheathing compound which exhibits an excellent level of fire retardancy. This product is specifically aimed at designs of cables requiring a good degree of flexibility and the ability to meet the more stringent fire test specifications.

APPLICATIONS

CENELEC: EN 50290-2-27

Germany: DIN VDE 0207, part 24, type HM2

General Information			
Features	Flame Retardant		
	Good Flexibility		
	Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	DIN VDE 0207, Part 24, Type HM2		
	EN 50290-2-27		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
-- ¹	14.2	MPa	IEC 60811-1-2
--	11.5	MPa	IEC 60811-1-1
Tensile Strain			
Break ²	140	%	IEC 60811-1-2
Break	200	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in IRM 902 Oil : 70°C	250	%	
after 7 days, in IRM 902 Oil : 23°C	220	%	
after 7 days, in IRM 903 Oil : 23°C	160	%	
Tensile Strength			
after 4 hours, in IRM 902 Oil : 70°C	9.20	MPa	
after 7 days, in IRM 902 Oil : 23°C	12.0	MPa	
after 7 days, in IRM 903 Oil : 23°C	7.50	MPa	

Hot Pressure Test (80°C)	35	%	IEC 60811-3-1
Acid Gas Emission Conductivity	7.50	μS/cm	IEC 60754-2
Acid Gas Emission pH	5.50		IEC 60754-2
Flammability Temperature Index	330	°C	ISO 4589-3
Smoke Density			ASTM E662
Flaming mode ³	< 90	Ds	
Non-flaming mode ⁴	< 200	Ds	
Toxicity	0.400		NES 713
Halogen Acid Gas Evolution	0.0	%	IEC 60754-1
Draw Down	1.5:1.0		
Extruder Screw Compression Ratio	1.0:1.0 to 2.0:1.0		

Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (100°C, 168 hr)	23	%	
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-30	%	
Change in Tensile Stress			
23°C, 168 hr, in IRM 902 Oil	5.0	%	
23°C, 168 hr, in IRM 903 Oil	-35	%	
70°C, 4 hr, in IRM 902 Oil	-20	%	
Change in Tensile Strain at Break			
23°C, 168 hr, in IRM 902 Oil	10	%	
23°C, 168 hr, in IRM 903 Oil	-20	%	
70°C, 4 hr, in IRM 902 Oil	25	%	

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	45	%	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.	after 7 days at 100°C
2.	after 7 days at 100°C
3.	Time to maximum: 12 minutes
4.	Time to maximum: 13 minutes

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