MEGOLON™ S340

Thermoplastic

AlphaGary

Message:

MEGOLON™ S340 is a thermoplastic, halogen free, fire retardant cable sheathing compound for general purpose applications. MEGOLON™ S340 exhibits an enhanced fire test performance with a high oxygen index whilst retaining similar mechanical properties to MEGOLON™ S300
APPLICATIONS
UK: BS 7655:6.1 types LTS1 and LTS3, BS7878:7 (HD 624.7 S1) and LUL SE569. MEGOLON™ S340 also meets the requirements of BS 7655:4.1 type TM1 for a general purpose PVC sheathing compound
Germany: DIN VDE 0207, part 24, type HM2
France: Norme Francaise NF C 32-323

General Information			
Features	Flame Retardant General Purpose Halogen Free		
Uses	Cable Jacketing General Purpose		
Agency Ratings	BS 7655 4.1 type TM1 BS 7655:6.1 Type LTS 1 BS 7655:6.1 Type LTS 3 BS 7878:7 (HD 624.7 S1) DIN VDE 0207, Part 24, Type HM2 NFC 32-323		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.55	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	4.5	g/10 min	ISO 1133
Mooney Viscosity (ML 1+4, 140°C)	45	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
-- [1]	18.0	MPa	IEC 60811-1-2
--	14.5	MPa	IEC 60811-1-1
Tensile Strain			
Break [2]	120	%	IEC 60811-1-2

Break	150	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in IRM 902 Oil : 70°C	170	%	
after 7 days, in IRM 902 Oil : 23°C	140	%	
after 7 days, in IRM 903 Oil : 23°C	150	%	
Tensile Strength			
after 4 hours, in IRM 902 Oil : 70°C	13.0	MPa	
after 7 days, in IRM 902 Oil : 23°C	13.0	MPa	
after 7 days, in IRM 903 Oil : 23°C	11.5	MPa	
Cold Elongation (-25°C)	65	%	IEC 60811-1-4
Cold Impact (-25°C)	pass		IEC 60811-1-4
Hot Deformation (90°C)	2.0	%	BS 6469 99.1
Hot Pressure Test (80°C)	15	%	IEC 60811-3-1
Insulation Resistance			BS 6469 99.2
20°C	1.0E+14	ohms·cm	
after 12 hours immersion in water : 20°C	5.0E+13	ohms·cm	
Acid Gas Emission Conductivity	28.0	µS/cm	IEC 60754-2
Acid Gas Emission pH	4.30		IEC 60754-2
Flammability Temperature Index	300	°C	ISO 4589-3
Smoke Density			ASTM E662
Flaming mode [3]	< 120	Ds	
Non-flaming mode [4]	< 270	Ds	
Toxicity	2.00		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		

Elastomers	Nominal Value	Unit	Test Method
Tear Strength	5.00	kN/m	BS 6469 99.1

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	26	%	
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-23	%	
Change in Tensile Stress			
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	-10	%	
70°C, 168 hr, in Water	0.0	%	BS 6469 99.1
Change in Tensile Strain at Break			
23°C, 168 hr, in IRM 902 Oil	-10	%	
23°C, 168 hr, in IRM 903 Oil	0.0	%	
70°C, 4 hr, in IRM 902 Oil	10	%	

70°C, 168 hr, in Water	-15	%	BS 6469 99.1
Change in Volume			
23°C, 168 hr, in IRM 902 Oil	1.0	%	
23°C, 168 hr, in IRM 903 Oil	10	%	
70°C, 4 hr, in IRM 902 Oil	3.0	%	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Constant (50 Hz)	4.80		ASTM D150
Dissipation Factor (50 Hz)	0.020		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	40	%	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: 10 minutes		
4.	Time to maximum: 13 minutes		

Recommended distributors for this material

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