MEGOLON S340

Alphagary - Thermoplastic

General Information

Product Description

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 EN 50290-2-27 and LUL SE569. MEGOLON® S340 also meets the requirements of BS EN 50363-4-1 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			
Features	• Flame Retardant	• General Purpose	• Halogen Free
Uses	• Cable Jacketing	• General Purpose	• Wire & Cable Applications
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
Processing Method	• Extrusion	• Wire & Cable Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	4.5	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
--	2100	psi	IEC 60811-501
-- [2]	2610	psi	IEC 60811-401
Tensile Strain			
Break	150	%	IEC 60811-501
Break [2]	120	%	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)	59		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Cold Elongation (-13°F)	65	%	IEC 60811-505
Cold Impact - No cracks (-13°F)	Pass		IEC 60811-506
Hot Deformation (194°F)	2.0	%	BS 6469 99.1
Hot Pressure Test (176°F)	15	%	IEC 60811-508
Aging	**Nominal Value**	**Unit**	
Change in Tensile Strength in Air (212°F, 168 hr)	26	%	
Change in Tensile Strain at Break in Air			
212°F, 168 hr	-23	%	

MEGOLON S340

Alphagary - Thermoplastic

Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (50 Hz)	4.80		ASTM D150
Dissipation Factor (50 Hz)	0.020		ASTM D150
Insulation Resistance			BS 6469 99.2
68°F	1.0E+14	ohms·cm	
after 12 hours immersion in water : 68°F	5.0E+13	ohms·cm	

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	40	%	ISO 4589-2
Flammability Temperature Index	572	°F	ISO 4589-3

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] after 7 days at 100°C