

MEGOLON S500

Alphagary - Thermoplastic

General Information

Product Description

MEGOLON® S500 is a thermoplastic, halogen free, fire retardant cable sheathing compound for general purpose applications. It exhibits good processing characteristics - using a low compression, MEG type screw, processing speeds similar to those of PVC can be achieved. It can also be processed on a simple PVC screw at lower speeds.

APPLICATIONS

- UK: BS 7878: 7 (HD 624.7 S1)
- Germany: DIN VDE 0207, part 24, type HM2
- France: Norme Française NF C 32-323

General

Features	<ul style="list-style-type: none"> • Flame Retardant • General Purpose 	<ul style="list-style-type: none"> • Good Processability • Halogen Free 	<ul style="list-style-type: none"> • Low Compression Set
Uses	<ul style="list-style-type: none"> • Cable Jacketing 	<ul style="list-style-type: none"> • General Purpose 	<ul style="list-style-type: none"> • Wire & Cable Applications
Agency Ratings	<ul style="list-style-type: none"> • BS 7878:7 (HD 624.7 S1) 	<ul style="list-style-type: none"> • DIN VDE 0207, Part 24, Type HM2 	<ul style="list-style-type: none"> • NFC 32-323
Processing Method	<ul style="list-style-type: none"> • Extrusion 	<ul style="list-style-type: none"> • Wire & Cable Extrusion 	

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	10	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
--	1600	psi	IEC 60811-501
-- ²	1810	psi	IEC 60811-401
Tensile Strain			
Break	180	%	IEC 60811-501
Break ²	150	%	IEC 60811-401
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	37.1	lbf/in	BS 6469 99.1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-20.2	°F	ASTM D746
Cold Elongation (-13°F)	96	%	IEC 60811-505
Cold Impact - No Cracks (-13°F)	Pass		IEC 60811-506
Hot Deformation	5.0	%	BS 6469 99.1
Hot Pressure Test (176°F)	25	%	IEC 60811-508
Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (212°F, 168 hr)	12	%	
Change in Tensile Strain at Break in Air 212°F, 168 hr	-18	%	

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Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	1400	V/mil	
Dielectric Constant (50 Hz)	4.30		ASTM D150
Dissipation Factor (50 Hz)	0.015		ASTM D150
Insulation Resistance			BS 6469 99.2
68°F	5.0E+14	ohms·cm	
after 12 hours immersion in water : 68°F	2.0E+14	ohms·cm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ISO 4589-2
Flammability Temperature Index	491	°F	ISO 4589-3

Notes

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

² after 7 days at 100°C