MEGOLON™ S501

Thermoplastic

AlphaGary

Message:

MEGOLON™ S501 is a thermoplastic, halogen free, fire retardant cable sheathing compound formulated specifically to meet BSI requirements.
APPLICATIONS
UK: BS 7655:6.1 types LTS 1 and LTS 3

General Information			
Features	Flame Retardant Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	BS 7655:6.1 Type LTS 1 BS 7655:6.1 Type LTS 3		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.46	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	7.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	54		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
-- [1]	14.1	MPa	IEC 60811-1-2
--	14.0	MPa	IEC 60811-1-1
Tensile Strain			
Break [2]	220	%	IEC 60811-1-2
Break	240	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in IRM 902 Oil : 70°C	260	%	
after 4 hours, in SAE 20 Oil : 70°C	280	%	
after 7 days, in IRM 902 Oil : 23°C	230	%	
after 7 days, in IRM 903 Oil : 23°C	220	%	
Tensile Strength			
after 4 hours, in IRM 902 Oil : 70°C	12.6	MPa	
after 4 hours, in SAE 20 Oil : 70°C	10.5	MPa	
after 7 days, in IRM 902 Oil : 23°C	13.3	MPa	
after 7 days, in IRM 903 Oil : 23°C	11.9	MPa	

Cold Elongation (-25°C)	96	%	IEC 60811-1-4
Cold Impact (-25°C)	pass		IEC 60811-1-4
Hot Deformation (90°C)	5.0	%	BS 6469 99.1
Hot Pressure Test (80°C)	10	%	IEC 60811-3-1
Insulation Resistance			BS 6469 99.2
20°C	6.0E+14	ohms·cm	
after 12 hours immersion in water : 20°C	2.0E+14	ohms·cm	
Acid Gas Emission Conductivity	13.0	µS/cm	IEC 60754-2
Acid Gas Emission pH	6.30		IEC 60754-2
Flammability Temperature Index	255	°C	ISO 4589-3
Smoke Density			ASTM E662
Flaming mode [3]	< 57	Ds	
Non-flaming mode [4]	< 280	Ds	
Toxicity	0.600		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	9.00	kN/m	BS 6469 99.1
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (100°C, 168 hr)	1.0	%	
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-8.0	%	
Change in Tensile Stress			
23°C, 168 hr, in IRM 902 Oil	-5.0	%	
23°C, 168 hr, in IRM 903 Oil	-15	%	
70°C, 4 hr, in IRM 902 Oil	-10	%	
70°C, 4 hr, in SAE 20 Oil	-25	%	
70°C, 168 hr, in Water	-13	%	BS 6469 99.1
Change in Tensile Strain at Break			
23°C, 168 hr, in IRM 902 Oil	-5.0	%	
23°C, 168 hr, in IRM 903 Oil	-10	%	
70°C, 4 hr, in IRM 902 Oil	10	%	
70°C, 4 hr, in SAE 20 Oil	15	%	
70°C, 168 hr, in Water	6.0	%	BS 6469 99.1
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Constant (50 Hz)	4.30		ASTM D150
Dissipation Factor (50 Hz)	0.015		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	35	%	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: 7 minutes
4.	Time to maximum: 12 minutes

Recommended distributors for this material

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