

MEGOLON™ S380

Thermoplastic

AlphaGary

Message:

MEGOLON® S380 is a thermoplastic, halogen free, fire retardant cable sheathing compound developed to meet the requirements of UK specification BS 7655 : 6.1 types LTS 1, 2, 3 & 4.

APPLICATIONS

UK: BS 6724 and BS 7835 cables

CENELEC: IEC 60502 cables

General Information			
Features	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	BS 6724		
	BS 7655:6.1 Type LTS 1		
	BS 7655:6.1 Type LTS 2		
	BS 7655:6.1 Type LTS 3		
	BS 7655:6.1 Type LTS 4		
	BS 7835		
	IEC 60502		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
-- ¹	12.6	MPa	IEC 60811-1-2
--	14.0	MPa	IEC 60811-1-1
Tensile Strain			
Break ²	140	%	IEC 60811-1-2
Break	180	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in IRM 902 Oil : 70°C	230	%	
after 4 hours, in SAE 20 Oil : 70°C	160	%	
after 7 days, in IRM 902 Oil : 23°C	190	%	
after 7 days, in IRM 903 Oil : 23°C	200	%	
Tensile Strength			

after 4 hours, in IRM 902 Oil : 70°C	12.5	MPa	
after 4 hours, in SAE 20 Oil : 70°C	11.2	MPa	
after 7 days, in IRM 902 Oil : 23°C	13.9	MPa	
after 7 days, in IRM 903 Oil : 23°C	12.2	MPa	
Hot Pressure Test (90°C)	20	%	IEC 60811-3-1
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			
--	9.30	kN/m	BS 6469 99.1
23°C	9.30	kN/m	
40°C	7.70	kN/m	
50°C	6.30	kN/m	
60°C	5.20	kN/m	
70°C	3.00	kN/m	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	-10	%	
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-20	%	
Change in Tensile Stress			
23°C, 168 hr, in IRM 902 Oil	-1.0	%	
23°C, 168 hr, in IRM 903 Oil	-13	%	
70°C, 4 hr, in IRM 902 Oil	-11	%	
70°C, 4 hr, in SAE 20 Oil	-20	%	
70°C, 168 hr, in Water	-10	%	BS 6469 99.1
Change in Tensile Strain at Break			
23°C, 168 hr, in IRM 902 Oil	7.0	%	
23°C, 168 hr, in IRM 903 Oil	11	%	
70°C, 4 hr, in IRM 902 Oil	26	%	
70°C, 4 hr, in SAE 20 Oil	-11	%	
70°C, 168 hr, in Water	-10	%	BS 6469 99.1
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

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| 1. | after 7 days at 100°C |
| 2. | after 7 days at 100°C |

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