

MEGOLON™ S552

Thermoplastic

AlphaGary

Message:

MEGOLON™ S552 is a thermoplastic, halogen free, fire retardant cable sheathing compound with enhanced resistance to degradation by hot water, formulated specifically to meet the requirements of UK specification BS 7655 : 6.1 type LTS4.

APPLICATIONS

UK: BS7655 : 6.1 type LTS4. Also meets the requirements of BS7655 : 6.1 types LTS1, LTS2, LTS3 and BS7655 : 4.1 type TM1 for a general purpose PVC sheathing compound

Germany: DIN VDE 0207, part 24, type HM4. Also meets the requirements of DIN VDE 0207, part 24, type HM2

General Information			
Features	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
Agency Ratings	BS 7655 4.1 Type TM1		
	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		
	DIN VDE 0207 Part 24, Type HM4		
Forms	Pellets		
	Extrusion		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	5.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
-- ¹	15.0	MPa	IEC 60811-1-2
-- ²	17.0	MPa	IEC 60811-1-2
--	14.0	MPa	IEC 60811-1-1
Tensile Strain			
Break ³	170	%	IEC 60811-1-2
Break	200	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in IRM 902 Oil : 70°C	210	%	

after 4 hours, in SAE 20 Oil : 70°C	180	%	
after 7 days, in IRM 902 Oil : 23°C	220	%	
after 7 days, in IRM 903 Oil : 23°C	160	%	
Tensile Strength			
after 4 hours, in IRM 902 Oil : 70°C	13.5	MPa	
after 4 hours, in SAE 20 Oil : 70°C	13.5	MPa	
after 7 days, in IRM 902 Oil : 23°C	14.5	MPa	
after 7 days, in IRM 903 Oil : 23°C	12.5	MPa	
Hot Pressure Test (90°C)	35	%	IEC 60811-3-1
Insulation Resistance - after 12 hours immersion in water (20°C)	1.0E+14	ohms·cm	BS 6469 99.2
Acid Gas Emission Conductivity	4.00	μS/cm	IEC 60754-2
Acid Gas Emission pH	5.70		IEC 60754-2
Flammability Temperature Index	280	°C	ISO 4589-3
Smoke Density ⁴			ASTM E662
Flaming mode	< 60	Ds	
Non-flaming mode	< 140	Ds	
Toxicity	0.600		NES 713
Halogen Acid Gas Evolution	0.0	%	IEC 60754-1
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	8.00	kN/m	BS 6469 99.1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			
100°C, 168 hr	5.0	%	
110°C, 168 hr	20	%	
Change in Tensile Strain at Break in Air			
100°C, 168 hr	-15	%	
110°C, 168 hr	-15	%	
Change in Tensile Stress			
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	-5.0	%	
70°C, 4 hr, in SAE 20 Oil	-5.0	%	
70°C, 168 hr, in Water	-12	%	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	-20	%	
70°C, 4 hr, in IRM 902 Oil	5.0	%	
70°C, 4 hr, in SAE 20 Oil	-10	%	
70°C, 168 hr, in Water	-5.0	%	BS 6469 99.1

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	36	%	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 110°C		
3.	after 7 days at 100°C		
4.	Time to maximum: 12 minutes		

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