

MEGOLON S552

Alphagary - Thermoplastic

General Information

Product Description

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. It also meets many other national and international specifications, some of which are detailed below. S552 is also suitable for low voltage insulation.

APPLICATIONS

- UK: BS 7655:6.1 type LTS4. Also meets the requirements of BS 7655:6.1 types LTS1, LTS2, LTS3 and BS EN 50363-7 type TI7 and BS EN 50363-8 TM7.
- Germany: DIN VDE 0207, part 24, type HM4. Also meets the requirements of DIN VDE 0207, part 24, type HM2
- Italy: CEI 20-11 types M1 and M9
- Australasia: AS/NZS 3808 types HFS-90-TP and HFS-110-TP
- International: IEC 60502-1 type ST8 and IEC 60092-359 type SHF1

General

Features	• Flame Retardant	• Halogen Free	
Uses	• Cable Jacketing	• Low Voltage Insulation	• Wire & Cable Applications
Agency Ratings	• AS/NZS 3808 Types HFS-90-TP & HFS-110-TP • 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 • CEI 2011 M1 • DIN VDE 0207 Part 24, Type HM4 • DIN VDE 0207, Part 24, Type HM2	• IEC 60092-359 SHF-1 • IEC 60502-1 Type ST8
Processing Method	• Wire & Cable Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.51		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	5.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
--	2030	psi	IEC 60811-501
-- ²	2180	psi	IEC 60811-401
-- ³	2470	psi	IEC 60811-401
Tensile Strain			
Break	200	%	IEC 60811-501
Break ²	170	%	IEC 60811-401
Break ³	170	%	IEC 60811-401
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	45.7	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 (-22°F)	60	%	IEC 60811-401
Cold Impact - No cracks (-22°F)	Pass		IEC 60811-401
Hot Pressure Test (194°F)	35	%	IEC 60811-508

MEGOLON S552

Alphagary - Thermoplastic

Aging	Nominal Value	Unit	
Change in Tensile Strength in Air			
212°F, 168 hr	5.0	%	
230°F, 168 hr	20	%	
Change in Tensile Strain at Break in Air			
212°F, 168 hr	-15	%	
230°F, 168 hr	-15	%	
Electrical	Nominal Value	Unit	Test Method
Insulation Resistance			BS 6469 99.2
after 12 hours immersion in water : 68°F	1.0E+14	ohms·cm	
after 2 hours immersion in water : 158°F	9.0E+11	ohms·cm	
after 2 hours immersion in water : 176°F	4.0E+11	ohms·cm	
after 2 hours immersion in water : 194°F	2.0E+11	ohms·cm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	36	%	ISO 4589-2
Flammability Temperature Index	536	°F	ISO 4589-3

Notes

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

² after 7 days at 100°C

³ after 7 days at 110°C