

# MEGOLON™ + S800

Thermoplastic

AlphaGary

Message:

MEGOLON+ S800 is a thermoplastic, halogen free, fire retardant high-speed cable sheathing compound for general-purpose applications. This product exhibits excellent processing characteristics including the ability to extrude at very high speeds and has been specifically designed to allow cable manufacturers to maximise volumetric output and efficiency

APPLICATIONS

- UK: BS 7878 : 7 (HD 624.7 S1)
- Germany: DIN VDE 0207, part 24, type HM2
- Also complies with BS7655 6.1 Grades LTS1 and LTS 3
- Designed to meet the demands of the data and communication cable market
- Also suitable for low voltage cable applications

General Information			
Features	Flame Retardant		
	General Purpose		
	Good Colorability		
	Good Processability		
	Good Surface Finish		
	Halogen Free		
	Moisture Resistant		
Uses	Cable Jacketing		
	Communication Wire Insulation		
	General Purpose		
	Low Voltage Insulation		
Agency Ratings	BS 7655:6.1 Type LTS 1		
	BS 7655:6.1 Type LTS 3		
	BS 7878:7 (HD 624.7 S1)		
	DIN VDE 0207, Part 24, Type HM2		
	IEC 60332-1		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	10	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			
-- <sup>1</sup>	13.2	MPa	IEC 60811-1-2
--	12.0	MPa	IEC 60811-1-1
Tensile Strain			
Break <sup>2</sup>	130	%	IEC 60811-1-2
Break	150	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in ASTM #2 Oil : 70°C	160	%	
after 4 hours, in Diesel : 70°C	44	%	
after 4 hours, in SAE 20 Oil : 70°C	100	%	
after 7 days, in ASTM #2 Oil : 23°C	200	%	
after 7 days, in Diesel : 23°C	140	%	
Tensile Strength			
after 4 hours, in ASTM #2 Oil : 70°C	7.00	MPa	
after 4 hours, in Diesel : 70°C	2.00	MPa	
after 4 hours, in SAE 20 Oil : 70°C	5.00	MPa	
after 7 days, in ASTM #2 Oil : 23°C	12.1	MPa	
after 7 days, in Diesel : 23°C	10.6	MPa	
Hot Pressure Test (80°C)	30	%	IEC 60811-3-1
Insulation Resistance			BS 6469 99.2
20°C	5.0E+14	ohms · cm	
after 28 days immersion in water : 20°C	5.0E+12	ohms · cm	
Acid Gas Emission Conductivity	5.00	µS/cm	IEC 60754-2
Acid Gas Emission pH	5.50		IEC 60754-2
Flammability Temperature Index	345	°C	ISO 4589-3
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	8.50	kN/m	BS 6469 99.1
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)	-15	%	
Change in Tensile Stress			
23°C, 168 hr, in ASTM #2 Oil	0.50	%	
23°C, 168 hr, in Diesel	-12	%	
70°C, 4 hr, in ASTM #2 Oil	-42	%	
70°C, 4 hr, in Diesel	-83	%	
70°C, 4 hr, in SAE 20 Oil	-58	%	
70°C, 168 hr, in Water	-14	%	BS 6469 99.1
Change in Tensile Strain at Break			

23°C, 168 hr, in ASTM #2 Oil	33	%	
23°C, 168 hr, in Diesel	-10	%	
70°C, 4 hr, in ASTM #2 Oil	7.0	%	
70°C, 4 hr, in Diesel	-71	%	
70°C, 4 hr, in SAE 20 Oil	-32	%	
70°C, 168 hr, in Water	-25	%	BS 6469 99.1
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	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		

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