

megolon HF 8553

Sheathing Grade Compound

DESCRIPTION

MEGOLON™ HF 8553 is a flexible thermoplastic, halogen free, fire retardant sheathing compound formulated specifically for demanding telecommunication cable applications (CMR and IEC60332-3C).

TECHNICAL PROPERTIES

Primary Properties

	Unit	Nominal Value	Test Method
Tensile strength	psi	1750	ASTM D-412
	MPa	12	ASTM D-412
Elongation at break	%	180	ASTM D-412
Oxygen Index	%	48	ASTM D-2863
Density	g/cc	1.62	ASTM D-792

Mechanical Properties

Tensile strength after 7 days at 121°C			
Variation	%	+6	UL Standard
Elongation at break after 7 days at 121°C			
Variation	%	-2	UL Standard

Thermomechanical Properties

Hot pressure at 80°C	%	25	IEC 60811-3-1
Brittle point (F-50)	°C	-22	ASTM D-746

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Fire and Smoke Test Properties

	Unit	Nominal Value	Test Method
Flammability temperature index	°C	315	ISO 4589-3
Halogen acid gas evolution	%	ZERO	IEC 60754-1
Corrosivity of gases			IEC 60754-2
pH		5.4	
Conductivity	µS/cm	5	
Smoke density – Flaming mode	Ds max	250	ASTM E-662
Smoke density – Non-flaming mode	Ds max	140	ASTM E-662
Smoke index		3.0	NES 711

Electrical Properties

Dielectric constant at 100MHz at 23°C		3.9	ASTM D-150
Dissipation factor at 100MHz at 23°C		0.015	ASTM D-150
Dielectric constant at 350MHz at 23°C		3.7	ASTM D-150
Dissipation factor at 350MHz at 23°C		0.007	ASTM D-150
Dielectric constant at 1GHz at 23°C		3.2	ASTM D-150
Dissipation factor at 1GHz at 23°C		0.001	ASTM D-150

Other Properties

Hardness	Shore D	59	ASTM D-2240
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