

ELIX™ ABS M3FR

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

Elix ABS M3FR
Flame retardant grade with good impact strength. Suitable for extrusion and injection moulding
ISO Shortname: ABS 1, MGF, 085-30-16-25

General Information			
UL YellowCard	E350602-101011322		
Features	Flame Retardant		
	Good Impact Resistance		
Processing Method	Extrusion		
	Injection Molding		
Part Marking Code	ABS 1, MGF, 085-30-16-25		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	19.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	105	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	43.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	2.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	
23°C	16	kJ/m ²	
Notched Izod Impact Strength (23°C)	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	75	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	86.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	88.0	°C	ISO 306/B50
--	90.0	°C	ISO 306/B120
CLTE - Flow (23 to 55°C)	9.0E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+17	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.00		
23°C, 1 MHz	3.00		
Dissipation Factor			IEC 60250
23°C, 100 Hz	7.0E-3		
23°C, 1 MHz	8.0E-3		
Comparative Tracking Index (Solution A)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13

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