

ELIX™ ABS M406

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

Elix ABS M406
Very high impact strength, increased chemical and dynamic resistance.

General Information			
UL YellowCard	E350602-101011313		
Features	Good Chemical Resistance		
	Ultra High Impact Resistance		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow	0.60 to 0.90	%	
Flow	0.60 to 0.90	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	74.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1800	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	39.0	MPa	
Break, 23°C	29.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	2.6	%	
Break, 23°C	> 15	%	
Flexural Modulus ² (23°C)	1800	MPa	ISO 178
Flexural Stress ³ (23°C)	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	18	kJ/m ²	
23°C	29	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	91.0	°C	ISO 75-2/A
Vicat Softening Temperature	92.0	°C	ISO 306/B50
CLTE			ISO 11359-2

Flow : 23 to 55°C	1.1E-4	cm/cm/°C	
Transverse : 23 to 55°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	33	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	2.90		
23°C, 1 MHz	2.80		
Dissipation Factor			IEC 60250
23°C, 100 Hz	5.5E-3		
23°C, 1 MHz	9.0E-3		
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index	650	°C	IEC 60695-2-12
NOTE			
1.	150x105x3		
2.	2.0 mm/min		
3.	2.0 mm/min		

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