

# ELIX™ ABS P2M-V

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

## Message:

ELIX ABS P2M-V

High impact strength, high gloss, low emission.

ISO Shortname: ISO 2580-1 -ABS 0, MG, 095-15-16-20

General Information			
Features	High Gloss High Impact Resistance Low Smoke Emission		
Forms	Pellets		
Part Marking Code (ISO 2580)	ABS 0, MG, 095-15-16-20		
Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	18.0	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage <sup>1</sup>			ISO 294-4
Across Flow	0.40 to 0.70	%	
Flow	0.40 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	2.2	%	
Break, 23°C	> 15	%	
Flexural Modulus <sup>2</sup> (23°C)	2200	MPa	ISO 178
Flexural Stress <sup>3</sup> (23°C)	63.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m <sup>2</sup>	
23°C	22	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m <sup>2</sup>	
23°C	180	kJ/m <sup>2</sup>	
Notched Izod Impact Strength			ISO 180/1A
-30°C	11	kJ/m <sup>2</sup>	
23°C	23	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	97.0	°C	ISO 306/B50
CLTE - Flow (23 to 55°C)	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	39	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.00		
23°C, 1 MHz	2.90		
Dissipation Factor			IEC 60250
23°C, 100 Hz	5.0E-3		
23°C, 1 MHz	8.0E-3		
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate <sup>4</sup> (2.00 mm)	55	mm/min	ISO 3795
Glow Wire Flammability Index (2.00 mm)	700	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	240	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	ISO 294

#### NOTE

1. 60x60x2
2. 2.0 mm/min
3. 2.0 mm/min
4. US - FMVSS

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