

POLYMAN® (ABS) M/MI-A

Acrylonitrile Butadiene Styrene

A. Schulman Europe



Prospector

Product Description

Medium impact standard ABS grade, antistatic

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• South America
Additive	• Antistatic		
Features	• Antistatic	• Medium Impact Resistance	
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >ABS<		

Physical	Nominal Value Unit	Test Method
Density	1.06 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	25.0 cm ³ /10min	ISO 1133
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2600 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	48.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.4 %	ISO 527-2/1A/50
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	7.0 kJ/m ²	
23°C	12 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	58 kJ/m ²	
23°C	91 kJ/m ²	
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	120 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	88.0 °C	ISO 75-2/Bf
1.8 MPa, Unannealed	77.0 °C	ISO 75-2/Af
Vicat Softening Temperature		
--	103 °C	ISO 306/A50
--	94.0 °C	ISO 306/B50
Flammability	Nominal Value Unit	Test Method
Flammability Classification		IEC 60695-11-10, -20
1.50 mm	HB	
3.00 mm	HB	
Glow Wire Flammability Index		IEC 60695-2-12
1.50 mm	675 °C	
3.00 mm	645 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.50 mm	700 °C	
3.00 mm	700 °C	

Notes

¹ Typical properties: these are not to be construed as specifications.