

POLYMAN® (ABS) M/MI CA

Acrylonitrile Butadiene Styrene

A. Schulman Europe

Message:

medium impact standard ABS-grade

General Information			
Processing Method	Injection molding		
Resin ID (ISO 1043)	ABS		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	31.3	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	95.7	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/1A/1
Tensile Stress			
Yield	43.7	MPa	ISO 527-2/1A/50
Fracture	31.8	MPa	ISO 527-2/1/50
Tensile Strain (Yield)	2.7	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	12	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	ISO 179/1eA
23°C	16	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	83	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	103	°C	ISO 75-2/Af
Vicat Softening Temperature	95.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	72	mm/min	ISO 3795
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	675	°C	IEC 60695-2-12
3.00 mm	650	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	675	°C	IEC 60695-2-13
Additional Information			

- 1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

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