

POLYMAN® (ABS) M/MI-A 40

Acrylonitrile Butadiene Styrene

A. Schulman Europe

Message:

High flow and medium impact ABS grade

General Information			
UL YellowCard	E86615-100962722		
Features	Antistatic property		
	High liquidity		
	Medium impact resistance		
UL File Number	E86615		
Processing Method	Injection molding		
Resin ID (ISO 1043)	ABS		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	42.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	109	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	41.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.2	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	ISO 179/1eA
23°C	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	67	kJ/m ²	ISO 179/1eU
23°C	85	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	81.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	69.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	99.0	°C	ISO 306/A50
--	93.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method

Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		IEC 60695-11-10, -20
3.00 mm	HB		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	650	°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	675	°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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