

POLYMAN® (SB) 416

General Purpose Polystyrene

A. Schulman Europe

Message:

Polystyrene with improved impact strength

General Information			
Processing Method	Injection molding		
Resin ID (ISO 1043)	PS		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	18.3	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2540	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	28.7	MPa	ISO 527-2/1A/50
Fracture	21.2	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	1.3	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	30	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.8	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	52	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	83.0	°C	ISO 306/B50
Additional Information			

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

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