

POLYMAN® (ABS) LP 320

Acrylonitrile Butadiene Styrene

A. Schulman Europe

Message:

Medium impact ABS grade

General Information			
Processing Method	Injection molding		
Resin ID (ISO 1043)	ABS		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	17.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2320	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	45.7	MPa	ISO 527-2/1A/50
Fracture	35.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	5.4	%	ISO 527-2/1A/50
Flexural Modulus ¹	2440	MPa	ISO 178
Flexural Stress ²			ISO 178
3.5% strain	67.2	MPa	ISO 178
4.3% strain	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	21	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	80.0	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50

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

NOTE			
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| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |

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