

## Technical Data Sheet

**Polyman ABS LP 320 GRY60615**

Acrylonitrile Butadiene Styrene

**Product Description**

Medium impact ABS grade

**Processing Method** Injection Molding**Resin ID** ABS

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (220 °C/10.0 kg)	17	cm <sup>3</sup> /10 min	ISO 1133
Density	1.04	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	45.7	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	5.4	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2440	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.5	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	35.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2320	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	67.2	MPa	ISO 178
(2.0 mm/min, 4.3%)	68.0	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	21	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	94.0	°C	ISO 306
(A (10N), 50 °C/h)	105	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	80	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	75	°C	ISO 75-2/A
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302