Technical Data Sheet

Polyman ABS M/AD NAT

Acrylonitrile Butadiene Styrene

Product Description

Good flowing ABS grade for self-colouring, for parts with matt surface finish

Processing Method Injection Molding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	8.0	cm³/10 min	ISO 1133
Density, (Method A)	1.06	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	29.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	22	%	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.5	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	23.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1350	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	16	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	80.0	°C	ISO 306
(A (10N), 50 °C/h)	108	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	82.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	63.0	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302