

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

Regulatory Status

For regulatory compliance information, see *Polyman* ABS M/AD NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status Commercial: Active

Availability Europe

Processing Method Injection Molding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	8.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.06	g/cm ³	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/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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