

POLYMAN[®] (ABS) M/Hi-A

Acrylonitrile Butadiene Styrene
Engineering Plastics

Product Description

increased impact modified ABS-standard with antistatic behaviour

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America
Additive	• Antistatic	• Impact Modifier
Features	• Antistatic	• Impact Modified
Automotive Specifications	• GM QK 002021 RZ Color: 70400 Black	• IMDS ID 6856215 Color: 70400 Black
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >ABS<	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	15 cm ³ /10min	15 cm ³ /10min	ISO 1133
Water Absorption Equilibrium, 73°F (23°C), 50% RH	1.2 %	1.2 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	6960 psi	48.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.1 %	2.1 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)	4.3 ft·lb/in ² 9.5 ft·lb/in ²	9.0 kJ/m ² 20 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C) 73°F (23°C)	34 ft·lb/in ² No Break	71 kJ/m ² No Break	ISO 179/1eU
Notched Izod Impact (Area) (73°F (23°C))	11.9 ft·lb/in ²	25.0 kJ/m ²	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	16000 psi	110 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed 264 psi (1.8 MPa), Unannealed	203 °F 196 °F	95.0 °C 91.0 °C	ISO 75-2/Bf ISO 75-2/Af
Vicat Softening Temperature	201 °F	94.0 °C	ISO 306/B50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification 0.06 in (1.5 mm)	HB	HB	IEC 60695-11-10, -20
Glow Wire Flammability Index 0.08 in (2.0 mm)	1020 °F	550 °C	IEC 60695-2-12

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Additional Information

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

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affect the quality of this product
- Keep material completely dry for good processing

Company Information

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

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