

Technical Data Sheet

Polyman ABS M/AQ LE BLK70492



Acrylonitrile Butadiene Styrene

Product Description

Increased impact modified and heat resistant ABS for automotive applications with low emission

Regulatory Status

For regulatory compliance information, see *Polyman ABS M/AQ LE BLK70492* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America
Processing Method	Injection Molding
Attribute	High Heat Resistance; Impact Modified; Low Emissions
Additive	Impact Modifier
Application	Automotive Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	13	cm ³ /10 min	ISO 1133
Density, (Method A)	1.04	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	45.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.8	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2300	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	19	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
Notched Izod Impact (Area), (23 °C)	22.0	kJ/m ²	ASTM D256
Hardness			
Ball Indentation Hardness, (H 358/30)	95.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	99.0	°C	ISO 306
(A (10N), 120 °C/h)	114	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	102	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	98.0	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			

Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
Additional Information			
Water Absorption 23C/50RH	1.2	%	ISO 62
UL Information			
Flammability Classification, (1.5 mm)	HB		IEC 60695-11-10, -20

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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