

Technical Data Sheet

Diamond ABS 3300GPBLK



Acrylonitrile Butadiene Styrene

Product Description

Diamond ABS 3300GPBLK is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications. Features include: High Impact Resistance, and Impact Modified.

Regulatory Status

For regulatory compliance information, see ABS 3300GPBLK [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
Processing Method	Injection Molding
Attribute	High Impact Resistance; Impact Modified
Forms	Pellets
Appearance	Black
Additive	Impact Modifier
Application	General Purpose

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/3.8 kg)	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.05	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min)	41.4	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	2280	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	210	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	110		ASTM D785
Thermal			
Vicat Softening Temperature	104	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi), (3.18 mm)	92.2	°C	ASTM D648
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	75.0	°C	ASTM D648



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80 to 85	°C
Suggested Max Moisture	0.1	%
Front Temperature	190 to 250	°C
Middle Temperature	190 to 250	°C
Rear Temperature	190 to 250	°C
Mold Temperature	40 to 80	°C
Injection Pressure	48.3 to 75.8	MPa

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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