

Technical Data Sheet

Diamond ABS831G10D1A13270



Acrylonitrile Butadiene Styrene

Product Description

Diamond ABS831G10D1A13270 is a Acrylonitrile Butadiene Styrene Glass Fiber, 10% filled material.

Regulatory Status

For regulatory compliance information, see ABS831G10D1A13270 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Forms	Pellets
Filler/Reinforcement	Glass Fiber, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (200 °C/5.0 kg)	1.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.18	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield	3	%	ASTM D638
Tensile Strength at Yield	56	MPa	ASTM D638
Tensile Strength at Break	56	MPa	ASTM D638
Flexural Modulus	3700	MPa	ASTM D790
Tensile Elongation at Break	5	%	ASTM D638
Tensile Modulus	3000	MPa	ASTM D638
Flexural Strength	75	MPa	ASTM D790
Impact			
Notched Izod Impact	91	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	105		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	88	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	98	°C	ASTM D648

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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