

Diamond ABS 3501 GF20 1002 NLNAT

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

Diamond ABS 3501 GF20 1002 NLNAT is a Acrylonitrile Butadiene Styrene Glass Fiber, 20% filled material. Features include: Good Impact Resistance.

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Good Impact Resistance
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.17		ASTM D792
Melt Mass-Flow Rate (MFR) ²			ASTM D1238
200°C/5.0 kg	0.80	g/10 min	
230°C/3.8 kg	2.5 to 3.0	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	9800	psi	ASTM D638
Flexural Modulus ⁴	643000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.2	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Annealed, 0.125 in	216	°F	
Vicat Softening Temperature	235	°F	ASTM D1525 ⁵

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	374 to 482	°F
Middle Temperature	374 to 482	°F
Front Temperature	374 to 482	°F
Mold Temperature	104 to 176	°F
Injection Rate	Moderate-Fast	