

Technical Data Sheet

Gapex Ht RNP43

Polyamide + PP
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.35	1.35 g/cm ³	ASTM D792
Water Absorption (24 Hr)	0.40 %	0.40 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	20000 psi	138 MPa	ASTM D638
Tensile Elongation (Break)	5.0 %	5.0 %	ASTM D638
Flexural Modulus	1.42E+6 psi	9790 MPa	ASTM D790
Flexural Strength (Yield)	30700 psi	212 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.6 ft·lb/in	140 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	15 ft·lb/in	800 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	415 °F	213 °C	
264 Psi (1.8 Mpa), Unannealed	385 °F	196 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	6.0 hr	6.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	550 to 565 °F	288 to 296 °C
Middle Temperature	550 to 565 °F	288 to 296 °C
Front Temperature	555 to 565 °F	291 to 296 °C
Nozzle Temperature	565 to 575 °F	296 to 302 °C
Mold Temperature	180 to 220 °F	82 to 104 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Notes

These are typical property values not to be construed as specification limits.