



Bergamid™ PA6 GF 30 Black

Polyamide 6

Key Characteristics

Product Description	
6016178	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Stiffness • Good Surface Finish
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.36	1.36	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2
73°F (23°C), 0.157 in (4.00 mm)	> 1.23E+6 psi	> 8500 MPa	
Tensile Strength ²			ISO 527
73°F (23°C), 0.157 in (4.00 mm)	18900 psi	130 MPa	
Tensile Elongation ²			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.5 to 3.0 %	2.5 to 3.0 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.0 ft·lb/in ²	4.2 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	15 ft·lb/in ²	32 kJ/m ²	ISO 179

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

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