Bergamid™ B700 NATUR 20

Polyamide 6

Key Characteristics

Product Description		
Internal Code:6000204		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	• Europe
Features	• Halogen Free	
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.13	1.13	ISO 1183
Molding Shrinkage - Flow	8.0E-3 to 0.011 in/in	0.80 to 1.1 %	ASTM D955
Viscosity Number	145 cm³/g	145 cm³/g	ISO 307
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	479000 psi	3300 MPa	ISO 527-2/1
Tensile Strength [2]			ISO 527
73°F (23°C), 0.157 in (4.00 mm)	12300 psi	85.0 MPa	
Tensile Elongation [2]			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	10 to 50 %	10 to 50 %	
Flexural Modulus	406000 psi	2800 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	2.4 ft·lb/in²	5.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	No Break	No Break	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2
66 psi (0.45 MPa), Unannealed	369 °F	187 °C	
Deflection Temperature Under Load			ISO 75-2
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm), ALL)	V-2	V-2	Internal Method
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1430 °F	775 °C	

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	140 to 194 °F	60 to 90 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] 2.0 in/min (50 mm/min)

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