

PolyOne Bergamid™ XP6042701 Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Injection Speed: 50 to 80% Holding Time: 3 to 9 sec Injection Time: 1 to 3.5 sec Cycle Time: 18 to 60 sec Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergamid-XP6042701-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	165 MPa	23900 psi	ASTM D638
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Charpy Impact, Notched	90.0 J/cm ²	428 ft-lb/in ²	J/m; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 240 °C	446 - 464 °F	
Middle Barrel Temperature	230 - 250 °C	446 - 482 °F	
Front Barrel Temperature	240 - 260 °C	464 - 500 °F	
Nozzle Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	100 - 110 °C	212 - 230 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

Injection Pressure Processing Properties	100 - 150 MPa Metric	14500 - 21800 psi English	Comments
Hold Pressure	50.0 - 80.0 MPa	7250 - 11600 psi	
Back Pressure	0.300 - 0.500 MPa	43.5 - 72.5 psi	
Screw Speed	80 - 160 rpm	80 - 160 rpm	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Carbon Fiber Reinforcement, 10% Filler by Weight	
	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	Asia Pacific	

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