Bergamid™ A70 G25 U Natur SO 70

Polyamide 66

Key Characteristics

Product Description			
25% glass fiber reinforced PA 6.6 resin with flame retardant based on red phosphorus.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Flame Retardant • Good Heat Resistance • Good Impact Resistance	• Good Stiffness • Good Strength • Halogen Free	• Heat Stabilized • Medium Viscosity
Uses	• Appliances • Automotive Applications	• Consumer Applications • Electrical/Electronic Applications	• General Purpose • Industrial Applications
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	1.38 g/cm³	1.38 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	1.27E+6 psi	8750 MPa	ISO 527-2/1
Tensile Stress	21000 psi	145 MPa	ISO 527-2/5
Tensile Strain (Break)	2.2 %	2.2 %	ISO 527-2/5
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength	3.6 ft·lb/in²	7.5 kJ/m²	ISO 180/A
Thermal	**Typical Value (English)**	**Typical Value (SI)**	
Melting Temperature	500 to 509 °F	260 to 265 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	Internal Method
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1760 °F	960 °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
Rear Temperature	527 to 545 °F	275 to 285 °C
Middle Temperature	536 to 554 °F	280 to 290 °C
Front Temperature	545 to 563 °F	285 to 295 °C
Nozzle Temperature	563 to 572 °F	295 to 300 °C
Mold Temperature	176 °F	80 °C