Bergamid™ B70 PM-X

Polyamide 6

Key Characteristics

Product Description		
6013041		
General		
Material Status	• Commercial: Active	
Regional Availability	• Europe	
Features	• Halogen Free	• Impact Modified
RoHS Compliance	• RoHS Compliant	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density [2] (73°F (23°C))	1.10	1.10	g/cm³	ISO 1183
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus				ISO 527-2/50
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	377000 (2600)	174000 (1200)	psi (MPa)	
Tensile Stress				ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	9430 (65.0)	7250 (50.0)	psi (MPa)	
Tensile Strain				ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm)	4.0	23	%	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	8.1 ft·lb/in² (17 kJ/m²)	No Break	(kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				ISO 75-2/A
264 psi (1.8 MPa), Unannealed	140 (60.0)	--	°F (°C)	
Continuous Use Temperature	149 (65.0)	--	°F (°C)	ASTM D794
Melting Temperature (DSC)	320 (160)	--	°F (°C)	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+15	1.0E+15	ohms·cm	ASTM D257

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.13 in (3.2 mm), ALL)	HB	HB		UL 94

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

Notes

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

[2] ±0.02

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