Bergamid™ B70 G30 grey VN7445CF

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Dimensional Stability	• Good Flow	• Good Stiffness
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity [2]	1.35	--		DIN 53479
Molding Shrinkage - Flow [3]				ISO 294-4
73°F (23°C), 157 in (4000 mm)	0.10 to 0.60	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus				ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.13E+6 (7800)	870000 (6000)	psi (MPa)	
Tensile Strength [4]				ISO 527
73°F (23°C), 0.157 in (4.00 mm)	17400 (120)	14500 (100)	psi (MPa)	
Tensile Elongation [4]				ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.0	3.5	%	
Flexural Modulus (73°F (23°C))	1.02E+6 (7000)	--	psi (MPa)	ISO 178
Flexural Stress (73°F (23°C))	25400 (175)	--	psi (MPa)	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	2.9 (6.0)	7.1 (15)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	23 (48)	> 29 (> 60)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				ISO 75-2/C
1160 psi (8.0 MPa), Unannealed	410 (210)	--	°F (°C)	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm), ALL	HB	HB		

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C

Notes

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

[2] ±0.03

[3] Bergmann method

[4] 0.20 in/min (5.0 mm/min)

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