

Chemlon® 60GS8H

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

60GS8H is a 40% glass sphere filled, heat stabilised nylon 6 that offers excellent rigidity coupled with minimal distortion.

General Information			
Filler / Reinforcement	Glass beads, 30% filler by weight		
Additive	heat stabilizer		
Features	Rigidity, high		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.60 - 1.5	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4800	MPa	ISO 527-2
Tensile Stress (Break)	88.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	4500	MPa	ISO 178
Flexural Stress ²	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	32	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	> 200	°C	ISO 75-2/B
1.8 MPa, not annealed	90.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	10	kV/mm	IEC 60243-1
Relative Permittivity	3.80		IEC 60250
Dissipation Factor (1 MHz)	0.020		IEC 60250
Comparative Tracking Index	525	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	22	%	ISO 4589-2

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Rear Temperature	240 - 290	°C
Middle Temperature	240 - 290	°C
Front Temperature	240 - 290	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	60.0 - 80.0	°C
Injection Rate	Fast	
Screw Speed	50 - 200	rpm

Injection instructions

背压:低注射压力:高如果材料在空气中暴露的时间不超过3小时,则无需干燥.

NOTE

1. Mould shrinkage is significantly influenced by many factors including wall thickness, gating, component shape and moulding conditions. The single point values stated were determined from a shallow box moulding of 50 x 50 x 10mm, with 2mm general wall thickness and internal ribbing of 1.5mm thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).
2. At Break

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