

Chemlon® 60GS6

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

60GS6 is a nylon 6 containing 30% glass beads.

General Information				
Filler / Reinforcement		Glass beads, 30% filler by weight		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.60 - 1.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	1700	MPa	ISO 527-2
Tensile Stress (Break)	80.0	40.0	MPa	ISO 527-2
Tensile Strain (Break)	10	20 - 50	%	ISO 527-2
Flexural Modulus	2500	1000	MPa	ISO 178
Flexural Stress				ISO 178
-- ²	--	60.0	MPa	ISO 178
-- ³	125	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.5	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	38 kJ/m ²	No Break		ISO 179
Notched Izod Impact	4.0	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	205	185	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	65.0	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	11	8.0	kV/mm	IEC 60243-1
Relative Permittivity	3.80	4.20		IEC 60250
Comparative Tracking Index	600	500	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm, Teknor Apex test result)	HB	--		UL 94
Oxygen Index	24	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	230 - 280		°C	
Middle Temperature	230 - 280		°C	
Front Temperature	230 - 280		°C	
Processing (Melt) Temp	< 300		°C	
Mold Temperature	60.0 - 80.0		°C	
Injection Rate	Fast			
Screw Speed	50 - 200		rpm	
Injection instructions				
如果材料在空气中暴露的时间不超过3小时,则无需干燥.背压:低注射压力:高				
NOTE				

Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall 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).

1.

2.

Yield

3.

Break

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