

Chemlon® 60GS7HX

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

60GS7HX is a 35% glass bead reinforced grade of nylon 6 that offers good balance of mechanical performance coupled with an improved dimensional accuracy. This grade is also heat stabilised for good endurance at elevated service temperatures.

General Information				
Filler / Reinforcement		Glass beads, 35% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
		Low shrinkage		
		Medium hardness		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	1.0 - 1.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3700	--	MPa	ISO 527-2
Tensile Stress	75.0	40.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	--	%	ISO 527-2
Flexural Modulus	3300	1100	MPa	ISO 178
Flexural Stress	125	60.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	25 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact	3.0	--	kJ/m ²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°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+13	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	10	9.0	kV/mm	IEC 60243-1

Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm, Teknor Apex test result)	HB	--		UL 94
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	20		hr	
Rear Temperature	240 - 280		°C	
Middle Temperature	240 - 280		°C	
Front Temperature	240 - 280		°C	
Processing (Melt) Temp	250 - 275		°C	
Mold Temperature	60.0 - 80.0		°C	
Injection Rate	Fast			
Back Pressure	Low			
Screw Speed	Moderate			
Injection instructions				
No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.				
NOTE				

1. 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).

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