

0.06 in, Teknor Apex test result

Oxygen Index

	General In	formation			
Product Description					
60GS7HX is a 35% glass bead reinforce dimensional accuracy. This grade is als		•	•	n improved	
General					
Material Status	Commercial: Active				
Availability	• Europe				
Filler / Reinforcement	 Glass Bead, 35% Filler by W 	/eight			
Additive	Heat Stabilizer				
Features			Medium R	Medium Rigidity	
Processing Method	Injection Molding	<u> </u>			
	ASTM & ISO	Properties ¹			
Physical	Dry	Conditioned	Unit	Test Method	
Density	1.40		g/cm³	ISO 1183	
Molding Shrinkage ²	1.0 to 1.5		%	Internal Method	
Water Absorption				ISO 62	
Equilibrium, 73°F, 50% RH	1.9		%		
Mechanical	Dry	Conditioned	Unit	Test Method	
Tensile Modulus	537000		psi	ISO 527-2	
Tensile Stress	10900	5800	psi	ISO 527-2	
Tensile Strain (Break)	3.0		%	ISO 527-2	
Flexural Modulus	479000	160000	psi	ISO 178	
Flexural Stress	18100	8700	psi	ISO 178	
Impact	Dry	Conditioned	Unit	Test Method	
Charpy Notched Impact Strength	2.4	4.8	ft·lb/in²	ISO 179/1eA	
Charpy Unnotched Impact Strength	12 ft·lb/in²	No Break		ISO 179/1eU	
Notched Izod Impact Strength	1.4		ft·lb/in²	ISO 180/A	
Thermal	Dry	Conditioned	Unit	Test Method	
Heat Deflection Temperature				ISO 75-2/B	
66 psi, Unannealed	392		°F		
Heat Deflection Temperature				ISO 75-2/A	
264 psi, Unannealed	176		°F		
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	
Electric Strength (0.118 in)	250	230	V/mil	IEC 60243-1	
Comparative Tracking Index	500		V	IEC 60112	
Flammability	Dry	Conditioned	Unit	Test Method	

Processing Information		
Injection	Dry Unit	
Drying Temperature	176 °F	
Drying Time	20 hr	

ISO 4589-2

ΗВ

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Chemlon® 60GS7HX

Teknor Apex Company (Chem Polymer) - Polyamide 6

Injection	Dry Unit
Rear Temperature	464 to 536 °F
Middle Temperature	464 to 536 °F
Front Temperature	464 to 536 °F
Processing (Melt) Temp	482 to 527 °F
Mold Temperature	140 to 176 °F
Injection Rate	Fast
Back Pressure	Low
Screw Speed	Moderate

Injection Notes

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.

Notes

¹ Typical properties: these are not to be construed as specifications.

² 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).