Chemlon® 66GS8H

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

66GS8H is a 40% glass-sphere filled, heat stabilised injection moulding grade of nylon 66. It has lower differential shrinkage and warpage and so is often suitable for use in applications requiring greater dimensional accuracy.

General Information				
Filler / Reinforcement	Glass beads, 40% filler by weight			
Features	Good dimensional stability Low warpage Thermal Stability Low shrinkage			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.44	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.90 - 1.5	--	%	Internal method
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	6300	3200	MPa	ISO 527-2
Tensile Stress (Break)	90.0	45.0	MPa	ISO 527-2
Flexural Modulus	5000	2300	MPa	ISO 178
Flexural Stress [2]	155	75.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	5.0	8.0	kJ/m²	ISO 179
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	> 240	235	°C	ISO 75-2/B
1.8 MPa, not annealed	220	180	°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)	15	13	kV/mm	IEC 60243-1
Dissipation Factor (1 MHz)	0.020	0.080		IEC 60250
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating	HB	--		Internal method
Glow Wire Flammability Index (1.50 mm)	650	--	°C	IEC 60695-2-12
Oxygen Index	27	--	%	ISO 4589-2

Injection	Dry	Unit	
Drying Temperature	80.0 - 100		°C
Drying Time	2.0		hr
Rear Temperature	270 - 290		°C
Middle Temperature	270 - 290		°C
Front Temperature	270 - 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 range values stated were 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).
2.	Break

Recommended distributors for this material

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