Chemlon® 66GF6H

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

66GF6H is a 30% glass fibre reinforced, heat stabilised nylon 66 that offers good mechanical performance and endurance at elevated service temperatures, coupled with good surface finish and flow.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	heat stabilizer
Features	Good liquidity Thermal Stability Excellent appearance
Uses	High temperature application
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.60 - 1.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	9000	6800	MPa	ISO 527-2
Tensile Stress	180	125	MPa	ISO 527-2
Tensile Strain (Break)	5.0	10	%	ISO 527-2
Flexural Modulus	9000	5100	MPa	ISO 178
Flexural Stress	250	105	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	48 kJ/m²	No Break		ISO 179/1eU
Notched Izod Impact	6.0	20	kJ/m²	ISO 180/A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	> 240	--	°C	ISO 75-2/B
1.8 MPa, not annealed	240	--	°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)	16	--	kV/mm	IEC 60243-1

Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm, Teknor Apex test result)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	270 - 290		°C	
Middle Temperature	270 - 290		°C	
Front Temperature	270 - 290		°C	
Processing (Melt) Temp	270 - 290		°C	
Mold Temperature	80.0 - 90.0		°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).

Recommended distributors for this material

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