

Chemlon® 66GF6

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

66GF6 is a reinforced nylon 66 containing 30% glass fiber, which can provide good mechanical properties as well as surface finish and fluidity.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Features		Good liquidity		
		Excellent appearance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.30 - 0.60	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	6800	MPa	ISO 527-2
Tensile Stress (Yield)	155	110	MPa	ISO 527-2
Tensile Strain (Break)	5.0	10	%	ISO 527-2
Flexural Modulus	7500	4600	MPa	ISO 178
Flexural Stress				ISO 178
-- ²	200	--	MPa	ISO 178
-- ³	--	100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	8.0	20	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	48 kJ/m ²	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	> 240	240	°C	ISO 75-2/B
1.8 MPa, not annealed	240	230	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	16	10	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.70	4.20		IEC 60250
Dissipation Factor (1 MHz)	0.010	0.040		IEC 60250

Comparative Tracking Index	600	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (Teknor Apex result)	HB	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	< 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				

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. At Break
3. At Yield

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