Chemlon® 66GF35

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

66GF35 is a 35% glass fibre reinforced nylon 66 that offers increased mechanical performance for use in applications that require additional stiffness and strength.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 35% filler by weight		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.30 - 1.2	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	6500	MPa	ISO 527-2
Tensile Stress	160	120	MPa	ISO 527-2
Tensile Strain (Break)	4.0	8.0	%	ISO 527-2
Flexural Modulus	8000	5000	MPa	ISO 178
Flexural Stress	235	125	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	7.5	18	kJ/m²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	> 245	--	°C	ISO 75-2/B
1.8 MPa, not annealed	245	--	°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	275 - 295		°C	

Middle Temperature	275 - 295	°C
Front Temperature	275 - 295	°C
Processing (Melt) Temp	280 - 295	°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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