

# Chemlon® 60GF2

Polyamide 6

Teknor Apex Company (Chem Polymer)

## Message:

60GF2 is a 10% glass fibre reinforced nylon 6 that offers good mechanical performance.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 10% filler by weight		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>1</sup>	1.0 - 1.8	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4000	--	MPa	ISO 527-2
Tensile Stress (Break)	90.0	60.0	MPa	ISO 527-2
Tensile Strain (Break)	4.5	--	%	ISO 527-2
Flexural Modulus	4000	2500	MPa	ISO 178
Flexural Stress <sup>2</sup>	105	75.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	18	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	25	--	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact	4.5	--	kJ/m <sup>2</sup>	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	180	--	°C	ISO 75-2/B
1.8 MPa, not annealed	100	--	°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+16	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	11	8.0	kV/mm	IEC 60243-1
Comparative Tracking Index	600	500	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	230 - 280	°C
Middle Temperature	230 - 280	°C
Front Temperature	230 - 280	°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		

	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).
1.	
2.	At Break

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