Chemlon® 60GF5

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

60GF5 is a 25% glass fibre reinforced nylon 6 that offers good mechanical performance and is suitable for general purpose injection moulding applications.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight			
Features	General			
Uses	General			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.25	g/cm³	ISO 1183	
Molding Shrinkage ¹	0.70 - 1.2	%	Internal method	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	7000	MPa	ISO 527-2	
Tensile Stress	125	MPa	ISO 527-2	
Tensile Strain (Break)	3.0	%	ISO 527-2	
Flexural Modulus	6000	MPa	ISO 178	
Flexural Stress	180	МРа	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength	10	kJ/m²	ISO 179/1eA	
Charpy Unnotched Impact Strength	45	kJ/m²	ISO 179/1eU	
Notched Izod Impact	7.0	kJ/m²	ISO 180/A	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature				
0.45 MPa, not annealed	> 200	°C	ISO 75-2/B	
1.8 MPa, not annealed	180	°C	ISO 75-2/A	
Electrical	Nominal Value	Unit	Test Method	
Surface Resistivity	1.0E+14	ohms	IEC 60093	
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093	
Dielectric Strength (3.00 mm)	10	kV/mm	IEC 60243-1	
Comparative Tracking Index	500	V	IEC 60112	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating (1.50 mm, Teknor Apex test result)	НВ		UL 94	
Oxygen Index	24	%	ISO 4589-2	
Injection	Nominal Value	Unit		

Drying Temperature	80.0	°C	
Drying Time	20	hr	
Rear Temperature	230 - 280	°C	
Middle Temperature	230 - 280	°C	
Front Temperature	230 - 280	°C	
Processing (Melt) Temp	240 - 270	°C	
Mold Temperature	60.0 - 80.0	°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).

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