



Chemlon® 60MGF6

Teknor Apex Company (Chem Polymer) - Polyamide 6

General Information

Product Description

60MGF6 is a 15% glass fibre, 15% mineral filled Nylon 6 that offers good rigidity and strength, coupled with low distortion characteristics.

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight • Mineral, 15% Filler by Weight
Features	• Good Strength • Medium Rigidity
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage ²	1.0 to 1.5	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	870000	psi	ISO 527-2
Tensile Stress	18900	psi	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	725000	psi	ISO 178
Flexural Stress	24700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.9	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength	21	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	392	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	374	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	20	hr
Rear Temperature	482 to 536	°F
Middle Temperature	482 to 536	°F
Front Temperature	482 to 536	°F
Processing (Melt) Temp	482 to 554	°F
Mold Temperature	140 to 176	°F
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	

Injection Notes

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.