

Chemlon® E-6 GF30

Teknor Apex Company (Chem Polymer) - Polyamide 6

General Information				
Product Description				
Chemlon® E-6 GF30 is an econo	omy range 30% glass fibre reinfor	ced Nylon 6 compound.		
It is available in natural or black	versions.			
General				
Material Status	Commercial: Active	Commercial: Active		
Availability	• Europe	North America		
Filler / Reinforcement	Glass Fiber, 30% F	Glass Fiber, 30% Filler by Weight		
Appearance	• Black	Natural Color		
Processing Method	 Injection Molding 			

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.36	g/cm³	ISO 1183	
Molding Shrinkage ²	0.30 to 0.80	%	Internal Method	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.1	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1.02E+6	psi	ISO 527-2	
Tensile Stress (Break)	21800	psi	ISO 527-2	
Tensile Strain (Break)	3.0	%	ISO 527-2	
Flexural Modulus	870000	psi	ISO 178	
Flexural Stress ³	24700	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact Strength	2.4	ft·lb/in²	ISO 180	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (66 psi, Unannealed)	> 392	°F	ISO 75-2/B	
Heat Deflection Temperature (264 psi, Unannealed)	392	°F	ISO 75-2/A	

Processing Information			
Injection	Nominal Value Unit		
Drying Temperature	176 °F		
Drying Time	2.0 hr		
Rear Temperature	446 to 536 °F		
Middle Temperature	446 to 536 °F		
Front Temperature	446 to 536 °F		
Processing (Melt) Temp	< 572 °F		
Mold Temperature	176 to 194 °F		
Injection Rate	Fast		
Screw Speed	50 to 200 rpm		
njection Notes			

Back pressure: Low

Injection pressure: High

The material is supplied dry and ready to mould in sealed, moisture proof sacks. 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. Should drying become necessary, two hours at 80°C in a dehumidifying drier is recommended. The use of air circulating driers is not generally recommended, as longer drying times are often required, with greater potential for product oxidation and yellowing. Drying temperatures should not exceed 80°C.