

## Chemlon® E-66 GF50

## Teknor Apex Company (Chem Polymer) - Polyamide 66

General Information				
Product Description				
Chemlon® E-66 GF50 is an ecor	nomy range 50% glass fibre reinfo	orced Nylon 66 compound.		
It is available in natural or black	versions.			
General				
Material Status	Commercial: Active			
Availability	• Europe	North America		
Filler / Reinforcement	Glass Fiber, 50% Filler by Weight			
Appearance	• Black	Natural Color		
Processing Method	<ul> <li>Injection Molding</li> </ul>			

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.57	g/cm³	ISO 1183		
Molding Shrinkage <sup>2</sup>	0.30 to 0.70	%	Internal Method		
Water Absorption (Equilibrium, 73°F, 50% RH)	1.3	%	ISO 62		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	2.18E+6	psi	ISO 527-2		
Tensile Stress (Break)	31900	psi	ISO 527-2		
Tensile Strain (Break)	3.0	%	ISO 527-2		
Flexural Modulus	2.03E+6	psi	ISO 178		
Flexural Stress <sup>3</sup>	43500	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact Strength	5.2	ft·lb/in²	ISO 180		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (66 psi, Unannealed)	> 482	°F	ISO 75-2/B		
Heat Deflection Temperature (264 psi, Unannealed)	> 464	°F	ISO 75-2/A		

Nominal Value		
Nonina value	Unit	
176	°F	
2.0	hr	
536 to 572	°F	
536 to 572	°F	
536 to 572	°F	
< 572	°F	
176 to 194	°F	
Fast		
50 to 200	rpm	
	2.0 536 to 572 536 to 572 536 to 572 < 572 176 to 194 Fast	176 °F  2.0 hr  536 to 572 °F  536 to 572 °F  536 to 572 °F  < 572 °F  < 572 °F  176 to 194 °F  Fast  50 to 200 rpm

## 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.