Chemlon® R106/N/50GFS

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

R106/N/50GFS is a 50% glass fibre reinforced nylon 6 that offers excellent mechanical performance coupled with good surface finish.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight			
Features	Excellent appearance			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.56	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.40 - 0.90	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	14400	10400	MPa	ISO 527-2
Tensile Stress (Break)	240	160	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	13800	10000	MPa	ISO 178
Flexural Stress [2]	320	230	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact	15	20	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	> 200	> 200	°C	ISO 75-2/B
1.8 MPa, not annealed	> 200	> 200	°C	ISO 75-2/A
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	11	8.0	kV/mm	IEC 60243-1
Relative Permittivity	3.80	4.20		IEC 60250
Comparative Tracking Index	525	--	V	IEC 60112
Injection	**Dry**	**Unit**		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	250 - 295		°C	
Middle Temperature	250 - 295		°C	

Front Temperature	250 - 295	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	80.0 - 90.0	°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	
1.	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).
2.	Break

Recommended distributors for this material

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