

Chemlon® 66GS6

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

66GS6 is a nylon 66 containing 30% glass beads, which can provide greater rigidity and less deformability.

General Information				
Filler / Reinforcement		Glass beads, 30% filler by weight		
Features		Low warpage		
		Rigidity, high		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage	0.80 - 1.0	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.80	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4000	2000	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	48.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0 - 10	20 - 50	%	ISO 527-2
Flexural Modulus	2800	1100	MPa	ISO 178
Flexural Stress				ISO 178
-- ¹	130	--	MPa	ISO 178
-- ²	--	63.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	3.0	9.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	23 kJ/m ²	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	210	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	70.0	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+11	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	17	11	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.60	4.00		IEC 60250

Dissipation Factor (1 MHz)	0.010	0.040		IEC 60250
Comparative Tracking Index	600	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	HB		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	270 - 290		°C	
Middle Temperature	270 - 290		°C	
Front Temperature	270 - 290		°C	
Processing (Melt) Temp	< 300		°C	
Mold Temperature	80.0 - 90.0		°C	
Injection Rate	Fast			
Screw Speed	50 - 200		rpm	

Injection instructions

如果材料在空气中暴露的时间不超过3小时,则无需干燥.背压:低注射压力:高

NOTE

1. At break
2. At Yield

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