



Chemlon® 533 GH

Teknor Apex Company - Polyamide 66

General Information

Product Description

Chemlon® 533 GH is a 33% glass fiber reinforced, general purpose polyamide 66 (PA 66) designed for injection molding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Heat Stabilizer		
Features	• General Purpose		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	0.15 to 0.30	--	%	
Water Absorption (24 hr, 73°F)	0.70	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.78E+6	1.10E+6	psi	ISO 527
Tensile Stress	23200	16000	psi	ISO 527
Tensile Strain (Break)	3.0	5.9	%	ISO 527
Flexural Modulus	1.16E+6	907000	psi	ISO 178
Flexural Stress	26800	21800	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.2	4.3	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	27	30	ft·lb/in ²	ISO 179
Notched Izod Impact Strength				ISO 180
73°F	3.1	5.2	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	482	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	446	--	°F	
Melting Temperature	500	--	°F	ISO 11357
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.031 in)	HB	--		UL 94

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Processing Information

Injection	Dry	Unit
Drying Temperature	176	°F
Suggested Max Moisture	0.13	%
Processing (Melt) Temp	509 to 559	°F
Mold Temperature	171 to 190	°F

Injection Notes

Maximum peak injection pressure should not exceed 80% of the machine's maximum pressure capability. Start with a holding pressure that is half the peak injection pressure. Perform a rheology curve in order to determine appropriate injection rate.

Notes

¹ Typical properties: these are not to be construed as specifications.