

Chemlon® 150 GHU

Teknor Apex Company - Polyamide 66

Saturday, September 14, 2024

General Information

Product Description

Chemlon® 150 GHU is a 50% glass fiber reinforced, heat and UV stabilized polyamide 66 (PA 66) designed for injection molding; primarily in metal replacement. This high tensile strength material has a wide processing window, provides a good surface appearance, and is available globally.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Heat Stabilizer • UV Stabilizer		
Features	• Good Processability • Good Surface Finish	• Good Thermal Stability • High Tensile Strength	• UV Resistant
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• CHRYSLER MS-DB-41 ¹		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.13	--	%	
Water Absorption (24 hr, 23°C)	0.60	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 23°C	1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20500	14600	MPa	ISO 527
Tensile Stress	249	170	MPa	ISO 527
Tensile Strain (Break)	2.5	4.1	%	ISO 527
Flexural Modulus	15000	11900	MPa	ISO 178
Flexural Stress	280	249	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	68	72	kJ/m ²	ISO 179
Notched Izod Impact Strength	10	14	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	253	--	°C	
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	> 250	--	°C	
Melting Temperature	250	--	°C	ASTM D789
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.8 mm)	HB	--		UL 94

Revision Date: 7/31/2024

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Legal Statement

Dry

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Processing Information

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.10 %
Processing (Melt) Temp	265 to 293 °C
Mold Temperature	77 to 88 °C

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 Automotive site approvals apply for US manufactured compound only

² Typical properties: these are not to be construed as specifications.

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