



Chemlon® 230 GH

Teknor Apex Company - Polyamide 6

General Information

Product Description

Chemlon 230 GH is a 30% glass filled nylon 6 material.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer
Uses	• Automotive Applications
Automotive Specifications	• GM GMP.PA6.054 Color: Black ¹ • GM GMP.PA6.054 Color: Natural ¹
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.20	%	
Water Absorption (24 hr, 73°F)	0.90	%	ISO 62
Water Absorption (Saturation, 73°F)	2.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.36E+6	psi	ISO 527-1
Tensile Stress (Break)	21800	psi	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	1.02E+6	psi	ISO 178
Flexural Stress	29000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.4	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	17	ft·lb/in ²	ISO 179
Notched Izod Impact Strength (73°F)	2.4	ft·lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	401	°F	ISO 75-2/A
Melting Temperature	428	°F	ASTM D789
CLTE - Flow	2.9E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ISO 1325
Dielectric Strength (0.118 in)	280	V/mil	ASTM D149
Comparative Tracking Index	> 600	V	Internal Method

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 in)	HB		UL 94
Oxygen Index	22	%	ISO 4589-2
FMVSS Flammability	Passed		FMVSS 302

Processing Information			
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	455 to 473	°F	
Middle Temperature	473 to 500	°F	
Front Temperature	473 to 518	°F	
Nozzle Temperature	473 to 518	°F	
Processing (Melt) Temp	473 to 518	°F	

Notes

- ¹ Automotive site approvals apply for US manufactured compound only
- ² Typical properties: these are not to be construed as specifications.