

Chemlon® 104-13 GH

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 104-13 GH is a Polyamide 66 (Nylon 66) material filled with 13% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 104-13 GH are:

Flame Rated

Good Dimensional Stability

Good Processability

Good Toughness

Heat Stabilizer

Typical application of Chemlon® 104-13 GH: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	Heat Stabilized		
	High Strength		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (285°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	7.0	%	
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	134	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-40°C	69	J/m	
23°C	130	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	215	°C	ASTM D648
Melting Temperature	257	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	11	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.810 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	241 to 257	°C	
Middle Temperature	263 to 274	°C	
Front Temperature	263 to 282	°C	
Nozzle Temperature	263 to 279	°C	
Processing (Melt) Temp	263 to 279	°C	
Mold Temperature	60.0 to 93.3	°C	
Injection Pressure	34.5 to 138	MPa	
Screw Speed	60 to 120	rpm	

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Recommended distributors for this material

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