

Chemlon® 113 GH

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 113 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® 113 GH are:

Flame Rated

Creep Resistant

Good Dimensional Stability

Good Stiffness

Heat Stabilizer

Typical application of Chemlon® 113 GH: Automotive

General Information			
UL YellowCard	E90654-271182		
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Creep Resistance		
	Good Dimensional Stability		
	Good Stiffness		
	Heat Stabilized		
	High Strength		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	114	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	3.0	%	
Flexural Modulus	4650	MPa	ASTM D790
Flexural Strength	169	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
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+15	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	18	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.810 mm)	HB		UL 94
Oxygen Index	25	%	ASTM D2863
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	257 to 271	°C	
Front Temperature	263 to 279	°C	
Nozzle Temperature	263 to 282	°C	
Processing (Melt) Temp	263 to 282	°C	

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