

Chemlon® 133 GH

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 133 GH is a Polyamide 66 (Nylon 66) material filled with 33% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 133 GH are:

- Flame Rated
- Good Processability
- Good Toughness
- Heat Stabilizer
- High Strength

Typical application of Chemlon® 133 GH: Automotive

General Information			
UL YellowCard	E90654-252584		
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Good Processability		
	Good Toughness		
	Heat Stabilized		
	High Strength		
	Lubricated		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	176	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	3.0	%	
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	276	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	249	°C	ASTM D648
Melting Temperature	257	°C	
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.810 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
0.810 mm	95.0	°C	
1.50 mm	110	°C	
3.00 mm	110	°C	
RTI Str			UL 746
0.810 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	16	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	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	246 to 257	°C	
Middle Temperature	263 to 274	°C	
Front Temperature	268 to 282	°C	
Nozzle Temperature	268 to 282	°C	
Processing (Melt) Temp	263 to 282	°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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