

Chemlon® 214 GH

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 214 GH is a Polyamide 6 (Nylon 6) material filled with 14% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 214 GH are:

- Flame Rated
- Creep Resistant
- Good Dimensional Stability
- Good Processability
- Good Toughness

Typical application of Chemlon® 214 GH: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,14% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Good Creep Resistance		
	Good Dimensional Stability		
	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	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 1.0	%	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	4310	MPa	ASTM D790
Flexural Strength	162	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			ASTM D648
0.45 MPa, Unannealed	204	°C	
1.8 MPa, Unannealed	188	°C	
Melting Temperature	216	°C	
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
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
Oxygen Index	22	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	218 to 235	°C	
Middle Temperature	241 to 257	°C	
Front Temperature	246 to 268	°C	
Nozzle Temperature	246 to 268	°C	
Processing (Melt) Temp	249 to 266	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

