

Chemlon® 233 G

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 233 G is a Polyamide 6 (Nylon 6) material filled with 33% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Chemlon® 233 G: Flame Rated.

General Information			
UL YellowCard	E90654-252572		
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	169	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	3.0	%	
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	212	°C	ASTM D648
Melting Temperature	216	°C	DSC
CLTE - Flow	5.3E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.810 mm	105	°C	
1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Imp			UL 746
0.810 mm	105	°C	
1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Str			UL 746
0.810 mm	105	°C	
1.50 mm	105	°C	
3.00 mm	105	°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	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	252 to 263	°C	
Front Temperature	252 to 268	°C	
Nozzle Temperature	252 to 268	°C	
Processing (Melt) Temp	249 to 268	°C	

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