

Chemlon® 233 GV

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 233 GV 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 GV: Flame Rated.

General Information			
UL YellowCard	E90654-252570	E90654-252571	
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	150	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	1.5	%	
Break	1.8	%	
Flexural Modulus	9480	MPa	ASTM D790
Flexural Strength	203	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)	208	°C	ASTM D648
Melting Temperature	218	°C	DSC
CLTE - Flow	5.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	15	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	300	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	33	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302
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 279	°C
Front Temperature	263 to 285	°C
Nozzle Temperature	263 to 285	°C
Processing (Melt) Temp	263 to 285	°C

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Recommended distributors for this material

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