

Chemlon® 225 GVNH BK555

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 225 GVNH BK555 is a Polyamide 6 (Nylon 6) material filled with glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 225 GVNH BK555 are:

- Flame Rated
- Flame Retardant
- Halogen Free

General Information			
UL YellowCard	E90654-100118924		
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
	Halogen Free		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Molding Shrinkage	0.25	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	150	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	8650	MPa	ISO 178
Flexural Stress	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-40°C	7.5	kJ/m ²	
23°C	11	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418
RTI Elec (0.810 mm)	65.0	°C	UL 746
RTI Imp (0.810 mm)	65.0	°C	UL 746
RTI Str (0.810 mm)	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Comparative Tracking Index	600	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.813 mm)	V-0		UL 94
Flammability	SE		FMVSS 302
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	15	%	
Rear Temperature	235 to 255	°C	
Middle Temperature	235 to 265	°C	
Front Temperature	235 to 270	°C	
Nozzle Temperature	235 to 270	°C	
Processing (Melt) Temp	235 to 270	°C	

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