



Chemlon® 225 GVNH BK555

Teknor Apex Company - Polyamide 6

General Information

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• Flame Retardant	• Halogen Free	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

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)	21800	psi	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	1.25E+6	psi	ISO 178
Flexural Stress	26800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-40°F	3.6	ft·lb/in ²	
73°F	5.0	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	374	°F	
Peak Melting Temperature	428	°F	ASTM D3418
RTI Elec (0.03 in)	149	°F	UL 746B
RTI Imp (0.03 in)	149	°F	UL 746B
RTI Str (0.03 in)	149	°F	UL 746B
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 (0.03 in)	V-0		UL 94
Flammability	SE		FMVSS 302

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Processing Information		
Injection	Nominal Value	Unit
Suggested Max Moisture	0.20	%
Suggested Max Regrind	15	%
Rear Temperature	455 to 491	°F
Middle Temperature	455 to 509	°F
Front Temperature	455 to 518	°F
Nozzle Temperature	455 to 518	°F
Processing (Melt) Temp	455 to 518	°F

Notes

¹ Typical properties: these are not to be construed as specifications.