

Chemlon® 225 GVNH BK555

Polyamide 6

Chem Polymer Corporation

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement		
Features	• Flame Retardant	• Halogen Free	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	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 Strength	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-40°C	7.50	kJ/m²	
23°C	10.5	kJ/m²	
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
Melting Temperature	220	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohm·cm	ASTM D257
Comparative Tracking Index	600	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (0.813 mm)	V-0		UL 94
Flammability	SE		FMVSS 302
UL 746	Nominal Value	Unit	Test Method
RTI Str (0.810 mm)	65.0	°C	UL 746
RTI Imp (0.810 mm)	65.0	°C	UL 746
RTI Elec (0.810 mm)	65.0	°C	UL 746
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	

Notes

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