



Chemlon® 218 GVH

Teknor Apex Company - Polyamide 6

General Information

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Flame Retardant		
Agency Ratings	• UL 94		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	18500	psi	ASTM D638
Tensile Elongation (Yield)	2.8	%	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	950000	psi	ASTM D790
Flexural Strength	24500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.7	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	390	°F	ASTM D648
Melting Temperature	420	°F	
CLTE - Flow	2.9E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (0.118 in)	280	V/mil	ASTM D149
Comparative Tracking Index (CTI)	300	V	UL 746A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Suggested Max Moisture	0.20	%
Suggested Max Re grind	25	%
Rear Temperature	425 to 455	°F
Middle Temperature	485 to 495	°F
Front Temperature	485 to 510	°F
Nozzle Temperature	485 to 510	°F
Processing (Melt) Temp	480 to 510	°F