



Chemlon® 217 GIU

Teknor Apex Company - Polyamide 6

General Information

Product Description

Filler / Reinforcement: Glass Fiber / Fully toughened

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Impact Modifier		
Features	• Impact Modified		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow ²	2.5E-3 to 4.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.85	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	12500	psi	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Tensile Elongation (Break)	5.5	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	17500	psi	ASTM D790
Poisson's Ratio	0.44		ASTM C1259
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	2.6	ft-lb/in	
73°F	4.0	ft-lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	345	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	315	°F	ASTM D648
Melting Temperature	420	°F	ASTM D789
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (0.03 in)	HB		UL 94
Oxygen Index	22	%	ASTM D2863

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Injection	Nominal Value	Unit
Drying Temperature	175	°F
Suggested Max Moisture	0.20	%
Suggested Max Regrind	25	%
Rear Temperature	465 to 495	°F
Middle Temperature	485 to 515	°F
Front Temperature	495 to 535	°F
Nozzle Temperature	495 to 535	°F
Processing (Melt) Temp	490 to 530	°F

Notes

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

² Dependent upon molding conditions particularly Mold temperature.

³ Chem Polymer measurement according to UL.