



Chemlon® 113 GHIU BK156

Teknor Apex Company (Chem Polymer) - Polyamide 66

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	14500	psi	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	701000	psi	ISO 178
Flexural Stress	21800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	3.8	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	417	°F	ISO 75-2/A
Melting Temperature	495	°F	ASTM D789
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ISO 1325
Dielectric Strength (0.118 in)	460	V/mil	ASTM D149
Comparative Tracking Index	600	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 in)	HB		UL 94
Oxygen Index	25	%	ISO 4589-2
FMVSS Flammability	PASSED		FMVSS 302

Processing Information

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	495 to 520	°F
Front Temperature	505 to 535	°F
Nozzle Temperature	505 to 540	°F
Processing (Melt) Temp	505 to 540	°F

Notes

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