



Chemlon® 109-14 GH

Teknor Apex Company - Polyamide 66

General Information

Product Description

Chemlon 109-14 GH is an impact modified, 14% glass fibre filled, heat stabilised injection moulding grade of nylon 66. It is formulated to offer an excellent balance between impact strength and rigidity.

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 14% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Features	• Good Stiffness • Heat Stabilized • Good Toughness • Impact Modified
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 73°F, 50% RH)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	682000	psi	ISO 527-1
Tensile Stress	15200	psi	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	580000	psi	ISO 178
Flexural Stress	18900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.7	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength	36	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength	6.2	ft·lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	> 464	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	446	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Comparative Tracking Index	500	V	IEC 60112

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0	hr
Rear Temperature	527 to 563	°F
Middle Temperature	527 to 563	°F
Front Temperature	527 to 563	°F
Processing (Melt) Temp	536 to 563	°F
Mold Temperature	176 to 194	°F
Injection Rate	Fast	

Chemlon® 109-14 GH

Teknor Apex Company - Polyamide 66

Injection	Nominal Value	Unit
Back Pressure		Low
Screw Speed		Moderate

Injection Notes

No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

Notes

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