



Chemlon® 60A 9000 BK

Teknor Apex Company - Polyamide 6

General Information

Product Description

Chemlon 60A 9000 is a general purpose, unfilled injection molding grade of nylon 6.

General

Material Status	• Commercial: Active
Availability	• Europe
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Molding Shrinkage	1.5 to 1.8	%	ISO 294-4
Water Absorption (24 hr, 73°F)	2.5 to 3.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	537000	psi	ISO 527-1/1
Tensile Stress (Yield)	10900	psi	ISO 527-2
Tensile Strain (Yield)	35	%	ISO 527-2
Flexural Modulus	290000	psi	ISO 178
Flexural Stress	10200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.8	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Notched Izod Impact Strength	2.4	ft-lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	365	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	158	°F	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	14	ohms	IEC 60093
Volume Resistivity	14	ohms·cm	IEC 60093
Electric Strength (0.118 in)	330	V/mil	IEC 60243-1
Relative Permittivity (1 MHz)	3.30		IEC 60250
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Oxygen Index	24	%	ISO 4589-2

Processing Information

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.