



Chemlon® 100 X

Teknor Apex Company (Chem Polymer) - Polyamide 66

General Information

Product Description

Chemlon 100 X is internally and externally lubricated for excellent feed and mold release properties.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Lubricant		
Features	• General Purpose • Good Processability	• Good Toughness • High Strength	• Lubricated
Uses	• Appliances	• Automotive Applications	• Electrical/Electronic Applications
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	12000	psi	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	425000	psi	ASTM D790
Flexural Strength	16500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	190	°F	ASTM D648
Melting Temperature	490	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	150 to 180	°F
Suggested Max Moisture	0.20	%
Rear Temperature	540	°F
Middle Temperature	520	°F
Front Temperature	500	°F
Nozzle Temperature	500	°F
Mold Temperature	70 to 200	°F
Injection Pressure	5000 to 20000	psi
Screw Speed	60 to 120	rpm

Notes

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