

# Chemlon® N66A

## Teknor Apex Company (Chem Polymer) - Polyamide 66

General Information					
Product Description					
N66A is a general purpose unfi	lled injection moulding grade of nylon	66.			
General					
Material Status	Commercial: Active				
Availability	• Europe	North America			
Features	General Purpose				
Uses	<ul> <li>General Purpose</li> </ul>				
Processing Method	Injection Molding				

ASTM & ISO Properties <sup>1</sup>					
Physical	Dry	Conditioned	Unit	Test Method	
Density	1.14	-	g/cm³	ISO 1183	
Molding Shrinkage <sup>2</sup>	1.5 to 2.0		%	Internal Method	
Mechanical	Dry	Conditioned	Unit	Test Method	
Tensile Modulus	406000	218000	psi	ISO 527-2	
Tensile Stress (Yield)	11600	7250	psi	ISO 527-2	
Flexural Modulus	435000	131000	psi	ISO 178	
Flexural Stress <sup>3</sup>	13100	3630	psi	ISO 178	
Impact	Dry	Conditioned	Unit	Test Method	
Notched Izod Impact Strength	2.4 ft·lb/in²	No Break		ISO 180	
Thermal	Dry	Conditioned	Unit	Test Method	
Heat Deflection Temperature				ISO 75-2/B	
66 psi, Unannealed	419	383	°F		
Heat Deflection Temperature				ISO 75-2/A	
264 psi, Unannealed	194	167	°F		
Electrical	Dry	Conditioned	Unit	Test Method	
Surface Resistivity	1.0E+15	1.0E+10	ohms	IEC 60093	
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093	
Electric Strength (0.118 in)	460	300	V/mil	IEC 60243-1	
Relative Permittivity (1 MHz)	3.80	4.30		IEC 60250	
Dissipation Factor (1 MHz)	0.020	0.080		IEC 60250	
Comparative Tracking Index	> 600	> 600	V	IEC 60112	

Processing Information				
Injection	Dry Unit			
Drying Temperature	176 to 212 °F			
Drying Time	2.0 hr			
Rear Temperature	518 to 554 °F			
Middle Temperature	518 to 554 °F			
Front Temperature	518 to 554 °F			
Processing (Melt) Temp	< 572 °F			
Mold Temperature	140 to 176 °F			
Injection Rate	Moderate			
Screw Speed	50 to 200 rpm			

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### **Injection Notes**

Back Pressure: Low Injection Pressure: Medium

No drying is necessary unless the material has been exposed to air for longer than 3 hours.

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Mould shrinkage is significantly influenced by many factors including wall thickness, gating, component shape and moulding conditions. The range values stated were determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

<sup>3</sup> At conventional deflection