Chemlon® N66A

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

N66A is a general purpose unfilled injection moulding grade of nylon 66.

General Information				
Features	General			
Uses	General			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.14	--	g/cm³	ISO 1183
Molding Shrinkage [1]	1.5 - 2.0	--	%	Internal method
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2800	1500	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	50.0	MPa	ISO 527-2
Flexural Modulus	3000	900	MPa	ISO 178
Flexural Stress [2]	90.0	25.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact	5.0 kJ/m²	No Break		ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	215	195	°C	ISO 75-2/B
1.8 MPa, not annealed	90.0	75.0	°C	ISO 75-2/A
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
Dielectric Strength (3.00 mm)	18	12	kV/mm	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
Injection	**Dry**	**Unit**		
Drying Temperature	80.0 - 100		°C	
Drying Time	2.0		hr	
Rear Temperature	270 - 290		°C	
Middle Temperature	270 - 290		°C	
Front Temperature	270 - 290		°C	

Processing (Melt) Temp	< 300	°C
Mold Temperature	60.0 - 80.0	°C
Injection Rate	Moderate	
Screw Speed	50 - 200	rpm

Injection instructions
Back Pressure: LowInjection Pressure: MediumNo drying is necessary unless the material has been exposed to air for longer than 3 hours.

NOTE	
1.	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).
2.	At conventional deflection

Recommended distributors for this material

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