

Chemlon® 66A

Teknor Apex Company (Chem Polymer) - Polyamide 66

General Information				
Product Description				
66A is a general purpose unfille	d injection moulding grade of nylon 66.			
General				
Material Status	Commercial: Active			
Availability	Europe			
Features	General Purpose			
Uses	General Purpose			
Forms	• Pellets			
Processing Method	Injection Molding			

ASTM & ISO Properties 1				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13 to 1.15		g/cm³	ISO 1183
Molding Shrinkage ²	1.4 to 1.9		%	Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	392000	247000	psi	ISO 527-2
Tensile Stress (Yield)	10900	7980	psi	ISO 527-2
Flexural Modulus	363000	109000	psi	ISO 178
Flexural Stress ³	10900	2900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.5 ft·lb/in²	No Break		ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact Strength	2.4	4.3	ft·lb/in²	ISO 180
Unnotched Izod Impact Strength	17 ft·lb/in²	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	365	347	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	194	140	°F	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms∙cm	IEC 60093
Electric Strength (0.118 in)	430	280	V/mil	IEC 60243-1
Relative Permittivity (1 MHz)	3.60			IEC 60250
Dissipation Factor (1 MHz)	0.010	0.040		IEC 60250
Comparative Tracking Index	> 600	> 600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
Teknor Apex test result	НВ			
Oxygen Index	24		%	ISO 4589-2

Processing Information				
Injection	Dry Unit			
Drying Temperature	176 °F			
Drying Time	2.0 hr			
Rear Temperature	518 to 554 °F			

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Dry Unit
518 to 554 °F
518 to 554 °F
< 572 °F
176 to 194 °F
Fast
50 to 200 rpm

Back Pressure: Low Injection Pressure: High

The material is supplied dry and ready to mould in sealed, moisture proof sacks. 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. Should drying become necessary two hours at 80°C in a dehumidifying dryer is recommended. Alternatively material may be dried for up to six hours in a hopper drier or an air circulating oven at a temperature not exceeding 80°C.

Notes

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

² 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).

³ At conventional deflection