Chemlon® N60A

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

N60A is a general purpose, unfilled, nucleated and lubricated injection moulding grade of nylon 6.

General Information				
Additive	Nucleating agent Lubricant			
Features	Nucleated Lubrication General			
Uses	General			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.13	--	g/cm³	ISO 1183
Molding Shrinkage [1]	1.2 - 2.0	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	3.0	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3000	1000	MPa	ISO 527-2
Tensile Stress (Yield)	68.0	36.0	MPa	ISO 527-2
Flexural Modulus	2900	800	MPa	ISO 178
Flexural Stress [2]	80.0	25.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	11	--	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	190	--	°C	ISO 75-2/B
1.8 MPa, not annealed	90.0	--	°C	ISO 75-2/A
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	14	10	kV/mm	IEC 60243-1

Relative Permittivity (1 MHz)	3.60	4.20		IEC 60250
Comparative Tracking Index	> 600	> 600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Flammability Index (1.50 mm)	750	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0 - 100		°C	
Drying Time	2.0		hr	
Rear Temperature	230 - 260		°C	
Middle Temperature	230 - 260		°C	
Front Temperature	230 - 260		°C	
Processing (Melt) Temp	< 300		°C	
Mold Temperature	40.0 - 80.0		°C	
Injection Rate	Moderate			
Screw Speed	50 - 200		rpm	
Injection instructions				
Back pressure: LowInjection pressure: MediumNo drying is necessary unless the materials has been exposed to air for longer than three 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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