

Chemlon® N60AHY

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

N60AHY is a high viscosity, unfilled, heat stabilised grade of nylon 6. It is primarily intended for extrusion applications such as pipe and profile.

General Information				
Additive		heat stabilizer		
Features		Thermal Stability		
		Viscosity, High		
Uses		Piping system		
		Profile		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	1.2 - 2.0	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	900	MPa	ISO 527-2
Tensile Stress	70.0	40.0	MPa	ISO 527-2
Flexural Modulus	2600	800	MPa	ISO 178
Flexural Stress (3.5% Strain)	80.0	25.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11 kJ/m ²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
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	95.0	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	14	10	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112

Extrusion	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Cylinder Zone 1 Temp.	230 - 250	°C
Cylinder Zone 3 Temp.	240 - 260	°C
Cylinder Zone 5 Temp.	240 - 260	°C
Melt Temperature	240 - 270	°C

Extrusion instructions

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.

NOTE

1. Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are 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).

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