



Chemlon® N60AHY

Teknor Apex Company (Chem Polymer) - Polyamide 6

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Heat Stabilizer
Features	• Heat Stabilized • High Viscosity
Uses	• Piping • Profiles
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage ²	1.2 to 2.0	--	%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	435000	131000	psi	ISO 527-2
Tensile Stress	10200	5800	psi	ISO 527-2
Flexural Modulus	377000	116000	psi	ISO 178
Flexural Stress (3.5% Strain)	11600	3630	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.2 ft·lb/in 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				ISO 75-2/B
66 psi, Unannealed	374	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	203	--	°F	
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
Electric Strength (0.118 in)	360	250	V/mil	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112

Processing Information

Extrusion	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0	hr
Cylinder Zone 1 Temp.	446 to 482	°F
Cylinder Zone 3 Temp.	464 to 500	°F
Cylinder Zone 5 Temp.	464 to 500	°F
Melt Temperature	464 to 518	°F

Extrusion Notes

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.