

Cast Nylons Nycast® XHA Heat Stabilized Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

Heat stabilized Cast Nylon 6 adds up to 20 degrees F higher continuous operation temperature for those applications that require additional temperature resistance beyond the standard resistance. Data provided by the manufacturer, Cast Nylons Limited. The data below are average values presented for comparison purposes. Actual property values may differ.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cast-Nylons-Nycast-XHA-Heat-Stabilized-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hrs; ASTM D570
Water Absorption at Saturation	5.5 %	5.5 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Hardness, Shore D	77	77	ASTM D2240
Tensile Strength, Ultimate	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	20 - 30 %	20 - 30 %	ASTM D638
Tensile Modulus	2.90 GPa	421 ksi	ASTM D638
Flexural Yield Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 ksi	ASTM D790
Compressive Modulus	2.10 GPa	305 ksi	ASTM D695
Shear Strength	72.0 MPa	10400 psi	ASTM D732
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 µm/m-°C	45.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	226 - 238 °C	439 - 460 °F	ASTM D789
Maximum Service Temperature, Air	121 °C	250 °F	Continuous service
	166 °C	331 °F	Intermittent service

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	204 - 221 °C	399 - 430 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	166 - 204 °C	331 - 399 °F	ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China