

## Nylacast H.S. Blue Cast Nylon 6, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

### Material Notes:

HS Blue is a heat Stabilised Cast Nylon 6. Its mechanical properties are maintained when operating at higher temperature and improves mechanical properties. This helps to reduce the stress distortion that can be caused by machining. Information provided by Nylacast Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nylacast-HS-Blue-Cast-Nylon-6-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Nylacast-HS-Blue-Cast-Nylon-6-Heat-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	method A; ISO 1183:1987

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83 - 85	83 - 85	ISO 868:2003
Tensile Strength, Yield	80.0 MPa	11600 psi	Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 20 %	>= 20 %	Type 1B, 50mm/min; ISO 527-1/2:1993
Tensile Modulus	3.487 GPa	505.7 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	100 - 114 MPa	14500 - 16500 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	2.90 GPa	421 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	90.0 - 147 MPa	13100 - 21300 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	2.70 GPa	392 ksi	Type B, 5mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	5.40 kJ/m <sup>2</sup>	2.57 ft-lb/in <sup>2</sup>	Type A; ISO 180:2000
Coefficient of Friction, Dynamic	0.15 @Pressure 1.75 MPa	0.15 @Pressure 254 psi	31.4m/min

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 μm/m-°C	44.4 μin/in-°F	ISO 11359-2:1999
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	223.6 °C	434.5 °F	
Maximum Service Temperature, Air	180 °C	356 °F	Intermittent
	115 °C	239 °F	Continuous

Thermal Properties	@Time 1.80e+7 sec Metric	@Time 5000 hour English	Comments
Minimum Service Temperature, Air	-100 °C	-148 °F	Intermittent
	-40.0 °C	-40.0 °F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093:1980-01
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093:1980-01
Dielectric Constant	3.7	3.7	IEC 60250:1969-01
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	4.0	4.0	IEC 60250:1969-01
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1:1998-01
Comparative Tracking Index	600 V	600 V	IEC 60112:2003-01

Descriptive Properties	Value	Comments
Color	Blue	

## Contact Songhan Plastic Technology Co.,Ltd.

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