

Product Information

TORZEN™ T3000HSL NC01 PA66 Resin

Product Description

TORZEN™ T3000HSL NC01 is a highly toughened, heat stabilized, natural PA66 resin with good impact strength, stiffness, weld line strength, surface appearance and flow.

Properties (dry)		Value	Units	Method
Physical	Specific Gravity	1.07	g/cm ³	ISO 1183
	Mold Shrinkage, 2.0 mm, Normal	1.6 – 1.9	%	ISO 294-4
	Mold Shrinkage, 2.0 mm, Parallel	1.7 – 2.0	%	ISO 294-4
Mechanical	Tensile Strength at Yield	47	MPa	ISO 527
	Elongation at Yield	4.5	%	ISO 527
	Elongation at Break	50	MPa	ISO 527
	Flexural Modulus	1,900	MPa	ISO 178
	Notched Charpy at 23°C	82	kJ/m²	ISO 179
	Notched Charpy at -40°C	19	kJ/m²	ISO 179
	Unnotched Charpy at 23°C	NB	kJ/m²	ISO 179
	Unnotched Charpy at -30°C	NB	kJ/m²	ISO 179
	Notched Izod at -30°C	17	kJ/m²	ISO 180
Thermal	Melting Temperature, 10°C/min	262	°C	ISO 11357
	HDT at 0.45 MPa	148	°C	ISO 75
	HDT at 1.82 MPa	61	°C	ISO 75
	CLTE, 2.0 mm, Parallel, 23 - 55 °C	1.4	10 ⁻⁴ /°C	ISO 11359
	CLTE, 2.0 mm, Normal, 23 - 55 °C	1.2	10 ⁻⁴ /°C	ISO 11359

General Information

Material Status

Commercial: Active

Availability

North America, South America, Europe, Asia

Features

Impact modified, heat stabilized, high flow

RoHS

No intentional additives or ingredients used in TORZENTM T3000HSL NC01 PA66 resin are among those in the European directive 2002/95/EC, (RoHS) as amended.

Process Guidelines for Molding

80 °C	
3 - 4 hours	
250 - 270 °C	
270 - 290 °C	
270 - 290 °C	
270 - 290 °C	
280 - 300 °C	
50 - 90 °C	
2 - 10 bar	
0.007 - 0.04 mm	
4 - 6 mm	
0.18 wt%	
0.08 wt%	
Low rpm	

^{*} Initial moisture below 0.25 wt%. Use dehumidified air.

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^{**} Melt pressure