

Product Information-Preliminary TORZEN™ G3000HS1L NC01

Product Description

TORZEN[™] G3000HS1L NC01 PA66 (NPD-012-1) is a 30% glass reinforced, heat stabilized, PA66 resin designed for general purpose applications.

Properties (dry)		Value	Units	Method
Physical	Density	1.37	g/cm ³	ISO 1183
	Glass Fiber Content	30	%	ISO 3451/4
	Mold Shrinkage, 2.0 mm, Normal	1.2	%	ISO 294-4
	Mold Shrinkage, 2.0 mm, Parallel	0.40	%	ISO 294-4
	Water Absorption - 24 hours	1.2	%	ISO 62
	Water Absorption - Equilibrium @ 50% RH	1.8	%	ISO 62
Mechanical	Tensile Strength at Break	190	MPa	ISO 527
	Elongation at Break	3.5	%	ISO 527
	Tensile Modulus	9511	MPa	ISO 527
	Flexural Modulus	8167	MPa	ISO 178
	Flexural Strength	270	MPa	ISO 178
	Notched Charpy at 23°C	11	kJ/m²	ISO 179
	Unnotched Charpy at 23°C	75	kJ/m²	ISO 179
	Notched Izod at 23°C	11	kJ/m²	ISO 180
Thermal	Melting Temperature, 10°C/min	262	°C	ISO 11357
	HDT at 0.45 Mpa	259	°C	ISO 75
	HDT at 1.82 MPa	244	°C	ISO 75

General Information

Material Status

Developmental: Active

Availability

North America, South America, Europe, Asia

Features

Glass reinforced, heat stabilized

RoHS

No intentional additives or ingredients used in TORZEN[™] G3000HS1L PA66 resin are among those in the European directive 2002/95/EC, (RoHs) as amended.

Process Guidelines for Molding

Drying Temperature	80 °C	
Drying Time*	3 - 4 hours	
Barrel Temperatures		
Rear	250 - 270 °C	
Middle	270 - 290 °C	
Front	270 - 290 °C	
Nozzle	270 - 290 °C	
Processing Temperature (melt)	280 - 300 °C	
Mold Temperature	50 - 90 °C	
Back Pressure**	2 - 10 bar	
Vent Depth	0.007 - 0.04 mm	
Cushion (range)	4 - 6 mm	
Suggested Moisture (max)	0.18 wt%	
Suggested Moisture (min)	0.08 wt%	
Screw Speed	Low rpm	

 \ast Initial moisture below 0.25 wt%. Use dehumidified air.

** Melt pressure

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