

Product Information TORZEN™ U4800 NC01

Due	nontion (dm)	Value	Unite	Mathed
Pro	perties (dry)	Value	Units g/cm ³	Method
Physical	Density	1.14	-	ISO 1183
	Mold Shrinkage, 2.0 mm, Parallel	1.5	%	ISO 294-4
	Mold Shrinkage, 2.0 mm, Transverse	1.8	%	ISO 294-4
	Water Absorption - 24 hours		%	ISO 62
	Water Absorption - Equilibrium @ 50% RH		%	ISO 62
	Tensile Strength at Yield (50 mm/min)	82	MPa	ISO 527
	Tensile Strength at Break	-	MPa	ISO 527
	Elongation at Yield	4.2	%	ISO 527
	Elongation at Break	50	%	ISO 527
a	Tensile Modulus (1 mm/min)	3100	MPa	ISO 527
Mechanical	Flexural Modulus	2900	MPa	ISO 178
lech	Flexural Strength	94	MPa	ISO 178
Σ	Notched Charpy at 23°C	6.4	kJ/m²	ISO 179
	Notched Charpy at -30°C	4.2	kJ/m²	ISO 179
	Unnotched Charpy at 23°C	NB	kJ/m²	ISO 179
	Unnotched Charpy at -30°C	430	kJ/m²	ISO 179
	Notched Izod at 23°C	4.7	kJ/m²	ISO 180
	Melting Temperature, 10°C/min	259	°C	ISO 11357
a	HDT at 0.45 MPa	200	°C	ISO 75
Thermal	HDT at 1.82 MPa	72	°C	ISO 75
두	CLTE, 2.0 mm, Parallel, 23 - 55 °C	0.9	10 ⁻⁴ /°C	ISO 11359
	CLTE, 2.0 mm, Transverse, 23 - 55 °C	1.1	10 ⁻⁴ /°C	ISO 11359
_	Surface Resistivity	2E+14	ohms	IEC 60093
Electrical	Volume Resistivity, 2.0 mm	4E+14	ohm-cm	IEC 60093
lect	Dielectric Strength, 1.0 mm	32	kV/mm	IEC 60243
ш	Comparative Tracking Index, 3.0 mm		volts	IEC 60112
	Flammability Classification (0.71 mm)	V-2		UL 94
	Glow Wire Flammability Index (0.71 mm)		°C	IEC 60695-2-12
ļį,	Glow Wire Flammability Index (1.5 mm)		°C	IEC 60695-2-12
nab	Glow Wire Flammability Index (2.0 mm)	960	°C	IEC 60695-2-12
Flammability	Glow Wire Ignition Temperature (0.71 mm)		°C	IEC 60695-2-12
	Glow Wire Ignition Temperature (1.5 mm)		°C	IEC 60695-2-12
	Glow Wire Ignition Temperature (2.0 mm)	750	°C	IEC 60695-2-12

Product Description

TORZEN[™] U4800 NC01 is a general purpose, natural PA66 resin suitable for compounding, injection molding, and extrusion applications where ease of processing, good color and physical property retention are desired.

General Information

Material Status

Commercial: Active

Availability

North America, South America, Europe, Asia

Features

Good color retention and processability

RoHS

No intentional additives or ingredients used in TORZEN[™] U4800 NC01 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	75 - 180 rpm	

* Initial moisture below 0.25 wt%. Use dehumidified air.
** Melt pressure

INVISTA Engineering Polymers Additional Information: <u>epinfo@INVISTA.com</u> Issue Date: September 2011

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