

TORZEN® U4800 NC01

Polyamide 66
INVISTA Engineering Polymers

Message:

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	
UL YellowCard	E333734-100640050
Features	General Purpose
	Good Color Stability
	Good Processability
Uses	Compounding
	General Purpose
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Processing Method	Compounding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	1.8	%	
Flow : 2.00 mm	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2/1
Tensile Stress (Yield)	82.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2
Yield	4.2	%	
Break	50	%	
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	94.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.2	kJ/m ²	
23°C	6.4	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179
-30°C	430	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength (23°C)	4.7	kJ/m ²	
Thermal		Nominal Value	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	200	°C	
1.8 MPa, Unannealed	72.0	°C	
Melting Temperature	259	°C	
CLTE		ISO 11359-2	
Flow : 23 to 55°C, 2.00 mm	9.0E-5	cm/cm/°C	
Transverse : 23 to 55°C, 2.00 mm	1.1E-4	cm/cm/°C	
Electrical		Nominal Value	Test Method
Surface Resistivity	2.0E+14	ohms	
Volume Resistivity (2.00 mm)	4.0E+14	ohms · cm	
Electric Strength (1.00 mm)	32	kV/mm	
Flammability		Nominal Value	Test Method
Flame Rating (0.710 mm)	V-2	UL 94	
Glow Wire Flammability Index (2.00 mm)	960	°C	
Glow Wire Ignition Temperature (2.00 mm)	750	°C	
Injection		Nominal Value	Unit
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.080 to 0.18	%	
Rear Temperature	250 to 270	°C	
Middle Temperature	270 to 290	°C	
Front Temperature	270 to 290	°C	
Nozzle Temperature	270 to 290	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	50.0 to 90.0	°C	
Back Pressure	0.200 to 1.00	MPa	
Screw Speed	75 to 180	rpm	
Cushion	4.00 to 6.00	mm	
Vent Depth	7.0E-3 to 0.040	mm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

