

TORZEN® U5101 NC01

Polyamide 66
INVISTA Engineering Polymers

Message:

TORZEN® U5101 NC01 is a 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			
Features	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	1.9	%	
Flow : 2.00 mm	1.6	%	
Water Absorption (23°C, 24 hr)	1.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2850	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2
Yield	3.8	%	
Break	30	%	
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.3	kJ/m ²	
23°C	4.7	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179

-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength (23°C)	4.8	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	207	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Melting Temperature	262	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	12 to 16	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

