

# TORZEN® U4830HSL NC01

Polyamide 66  
INVISTA Engineering Polymers

Message:

TORZEN® U4830HSL NC01 is a heat-stabilized, lubricated molding grade PA66 in natural color. The heat stabilizer system has been designed to provide excellent property retention in high temperature applications. U4830HSL is also available in black.

General Information			
Additive	Heat Stabilizer		
	Lubricant		
Features	Fast Molding Cycle		
	Good Mold Release		
	Good Processability		
	Heat Stabilized		
	Lubricated		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	1.8	%	
Flow : 2.00 mm	1.9	%	
Water Absorption (23°C, 24 hr)	1.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Yield)	84.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2
Yield	4.2	%	
Break	30	%	
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.6	kJ/m <sup>2</sup>	

23°C	6.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength		ISO 179	
-30°C	350	kJ/m <sup>2</sup>	
23°C	No Break		
Notched Izod Impact Strength (23°C)	4.8	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	199	°C	ISO 75-2/B
1.8 MPa, Unannealed	64.0	°C	ISO 75-2/A
Melting Temperature	261	°C	ISO 11357-3
Flammability	Nominal Value	Test Method	
Flame Rating (0.400 mm)	V-2	UL 94	
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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