

TORZEN® U4830HSL BK01

Polyamide 66
INVISTA Engineering Polymers

Message:

TORZEN® U4830HSL BK01 resin is a heat-stabilized, lubricated molding grade PA66 in black color. The heat stabilizer system has been designed to provide excellent property retention in high temperature applications. U4830HSL is also available in natural color.

General Information	
Additive	Heat Stabilizer
	Lubricant
Features	Fast Molding Cycle
	Good Mold Release
	Good Processability
	Good UV Resistance
	Heat Stabilized
	Lubricated
Uses	Appliances
	Automotive Applications
	Electrical/Electronic Applications
	Household Goods
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Processing Method	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	1.9	%	
Water Absorption (23°C, 24 hr)	1.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2/1
Tensile Stress (Yield)	87.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2
Yield	3.9	%	

Break	30	%	
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress	101	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact Strength (23°C)	4.7	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	203	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/A
Melting Temperature	263	°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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