

TORZEN® U4820L BKB01

Polyamide 66
INVISTA Engineering Polymers

Message:

TORZEN® U4820L BKB01 is a general purpose black PA66 resin suitable for injection molding and extrusion applications where fast cycles are required. It is lubricated internally and externally for excellent machine feed and mold release.

General Information			
Additive	Lubricant		
Features	Fast Molding Cycle		
	General Purpose		
	Good Color Stability		
	Good Mold Release		
	Good Processability		
	Lubricated		
Uses	General Purpose		
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	1.8	%	
Water Absorption (23°C, 24 hr)	1.7	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Yield)	82.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2
Yield	4.1	%	
Break	35	%	
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	96.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.0	kJ/m ²	

23°C	4.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength (23°C)	4.9	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	221	°C	ISO 75-2/B
1.8 MPa, Unannealed	71.0	°C	ISO 75-2/A
Melting Temperature	262	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	IEC 60093
Volume Resistivity (2.00 mm)	4.0E+14	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	32	kV/mm	IEC 60243-1
Comparative Tracking Index (3.00 mm)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 mm)	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.710 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.710 mm	960	°C	
1.50 mm	900	°C	
3.00 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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