

## DuPont Performance Polymers Zytel® 103HSL BKB080 Nylon 66 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Zytel® 103HSL BKB080 is a heat stabilized, lubricated polyamide 66 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-103HSL-BKB080-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-103HSL-BKB080-Nylon-66-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	85.0 MPa	12300 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	20 %	20 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	40 %	40 %	50mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 50 %	>= 50 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	4.0 %	4.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	25 %	25 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	1.40 GPa	203 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.10 GPa	450 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.80 GPa	406 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric <sup>l/m<sup>2</sup></sup>	English <sup>lb/in<sup>2</sup></sup>	Comments
Izod Impact, Notched (ISO)	@Temperature -40.0 °C	@Temperature -40.0 °F	DAM; ISO 180/1A
	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DAM; ISO 180/1A
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	DAM; ISO 179/1eA
	0.550 J/cm <sup>2</sup>	2.62 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	DAM; ISO 75-1/-2
UL RTI, Electrical	140 °C	284 °F	DAM; UL 746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	140 °C	284 °F	DAM; UL 746B
UL RTI, Mechanical with Impact	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	DAM; UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	95.0 °C	203 °F	DAM; UL 746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	110 °C	230 °F	DAM; UL 746B
UL RTI, Mechanical with Impact	@Thickness 3.00 mm	@Thickness 0.118 in	
	110 °C	230 °F	DAM; UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	115 °C	239 °F	DAM; UL 746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	125 °C	257 °F	DAM; UL 746B
UL RTI, Mechanical with Impact	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 °C	257 °F	DAM; UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	DAM; IEC 60695-11-10

Thermal Properties	@Thickness 0.710 mm Metric	@Thickness 0.0280 in English	Comments
	V-2	V-2	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	DAM; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	DAM; UL94
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	V-2	V-2	DAM; UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	DAM; UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	725 °C	1340 °F	DAM; Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	725 °C	1340 °F	DAM; Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	725 °C	1340 °F	DAM; Ignition; IEC 60695-2-13
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	850 °C	1560 °F	DAM; IEC 60695-2-12
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	960 °C	1760 °F	DAM; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	DAM; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	DAM; UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 600 V	>= 600 V	DAM; UL 746A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	DAM; Optimum

Processing Properties	Metric <sup>100 °C</sup>	English <sup>172 °F</sup>	Comments
Mold Temperature	70.0 °C	158 °F	DAM; optimum
	50.0 - 90.0 °C	122 - 194 °F	DAM
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Current	DAM
Part Marking Code	>PA66<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA66	DAM
Processing Method	Injection Molding	DAM
Product Category	Unreinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA66	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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