RMS 115

Product Information

DuPont™ Zytel®

nylon resin

Zytel® 101L BKB009

Zytel® 101L BKB009 is a lubricated polyamide 66 resin for injection molding.

Property	Test Method	Units	Value DAM
Identification			
Resin Identification	ISO 1043		PA66
Part Marking Code	ISO 11469		>PA66<
Mechanical			
Yield Stress	ISO 527	MPa (kpsi)	88 (12.8)
Yield Strain	ISO 527	%	4.6
Nominal Strain at Break	ISO 527	%	16
Tensile Modulus	ISO 527	MPa (kpsi)	3050 (440)
Flexural Modulus	ISO 178	MPa (kpsi)	2800 (410)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	
-30°C (-22°F)			3.7
23°C (73°F)			4.0
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	
-30°C (-22°F)			134
23°C (73°F)			203
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			200 (392)
1.80MPa			70 (158)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			262 (504)
Flammability			
Flammability Classification	IEC 60695-11-10		
0.71mm			V-2
Flammability Classification	UL94		
0.71mm			V-2

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

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Flammability			
Glow Wire Flammability Index	IEC 60695-2-12	°C	
0.71mm			960
1.5mm			960
3.0mm			960
Glow Wire Ignition Temperature	IEC 60695-2-13	°C	
0.71mm			725
1.5mm			750
3.0mm			800
High Amperage Arc Ignition Resistance	UL 746A	arcs	
0.71mm			120
1.5mm			168
3.0mm			182
6.0mm			200
Hot Wire Ignition	UL 746A	s	
0.71mm			7
1.5mm			13
3.0mm			17
6.0mm			20
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.71mm			130
RTI, Impact	UL 746B	°C	
0.71mm			75
RTI, Strength	UL 746B	°C	
0.71mm			85
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1140 (1.14)

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			DAM
Processing			
Melt Temperature Range		°C (°F)	280-300 (535-570)
Melt Temperature Optimum		°C (°F)	290 (555)
Mold Temperature Range		°C (°F)	50-90 (120-190)
Mold Temperature Optimum		°C (°F)	70 (160)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (175)
Processing Moisture Content		%	<0.20

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Test temperatures are 23°C unless otherwise stated.

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