

# DuPont™ Zytel®

nylon resin

## Zytel® 70G30HSLR BK099

Zytel® 70G30HSLR BK099 is a 30% glass fiber reinforced, heat stabilized, hydrolysis resistant polyamide 66 resin for injection molding.

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Identification</b>				
Resin Identification	ISO 1043		PA66-GF30	
Part Marking Code	ISO 11469		>PA66-GF30<	
<b>Mechanical</b>				
Stress at Break	ISO 527	MPa (kpsi)	195 (28.3)	130 (18.9)
Strain at Break	ISO 527	%	3	5
Tensile Modulus	ISO 527	MPa (kpsi)	10000 (1450)	7200 (1045)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	12	14
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	75	90
<b>Thermal</b>				
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	253 (487)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	262 (504)	
<b>Electrical</b>				
CTI 3.0mm	UL 746A	V	400	

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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Zytel® 70G30HSLR BK099

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Flammability</b>				
Flammability Classification 0.75mm	IEC 60695-11-10		HB	
Flammability Classification 0.75mm	UL94		HB	
High Amperage Arc Ignition Resistance 0.75mm	UL 746A	arcs	120	
1.5mm			120	
3.0mm			120	
Hot Wire Ignition 0.75mm	UL 746A	s	7	
1.5mm			7	
3.0mm			60	
<b>Temperature Index</b>				
RTI, Electrical 0.75mm	UL 746B	°C	140	
RTI, Impact 0.75mm	UL 746B	°C	125	
RTI, Strength 0.75mm	UL 746B	°C	140	
<b>Other</b>				
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1370 (1.37)	
<b>Processing</b>				
Melt Temperature Range		°C (°F)	285-305 (545-580)	
Melt Temperature Optimum		°C (°F)	295 (565)	
Mold Temperature Range		°C (°F)	70-120 (160-250)	
Mold Temperature Optimum		°C (°F)	100 (210)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.20	

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