

DuPont™ Zytel® HTN

high performance polyamide resin

PRELIMINARY DATA

Zytel® HTNFR52G30NH BK337

Zytel® HTNFR52G30NH BK337 is a 30% glass reinforced, flame retardant, lubricated high performance polyamide resin. It is also a PPA resin and is halogen-free.

Property	Test Method	Units	Value
			DAM
Identification			
Part Marking Code	ISO 11469		>PA6T/66-GF30FR(40)<
Part Marking Code	SAE J1344		>PPA-GF30FR<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	150 (22)
Strain at Break	ISO 527	%	2.1
Tensile Modulus	ISO 527	MPa (kpsi)	10000 (1450)
Flexural Modulus	ISO 178	MPa (kpsi)	8900 (1290)
Flexural Strength	ISO 178	MPa (kpsi)	238 (35)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	8
Thermal			
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C (°F)	285 (545)
Melting Temperature 10°C/min, First Heat	ISO 11357-1/-3	°C (°F)	310 (590)

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.

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Property	Test Method	Units	Value
			DAM
Electrical			
Surface Resistivity	IEC 60093	ohm	>1E15
Volume Resistivity	IEC 60093	ohm m	>1E13
Electric Strength 2.0mm	IEC 60243-1	kV/mm (V/mil)	26.0 (655)
Dielectric Constant 1 GHz	ASTM D 2520 B		3.7
10 GHz			3.8
Dissipation Factor 1 GHz	ASTM D 2520 B	E-4	120
10 GHz			100
Flammability			
Flammability Classification 0.4mm	UL94		V-0
Glow Wire Flammability Index 0.75mm	IEC 60695-2-12	°C	960
Glow Wire Ignition Temperature 0.75mm	IEC 60695-2-13	°C	725
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1440 (1.44)
Molding Shrinkage Normal, 2.0mm	ISO 294-4	%	1.0
Parallel, 2.0mm			0.3
Processing			
Melt Temperature Range		°C (°F)	320-330 (610-625)
Mold Temperature Range		°C (°F)	85-130 (185-266)
Drying Time, Dehumidified Dryer		h	6-8
Drying Temperature		°C (°F)	100 (210)
Processing Moisture Content		%	<0.10

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