

DuPont™ Zytel® HTNFR52G45NHF BK337 (Preliminary Data)

HIGH PERFORMANCE POLYAMIDE RESIN

Product Information

Zytel® HTNFR52G45NHF BK337 is a 45% Glass Reinforced, Flame Retardant, High Performance Polyamide with improved flow. It is also a PPA resin and it uses a non-halogenated flame retardant.

General information	Value	Unit	Test Standard
Resin Identification	PA(6T/66)-GF45FR (40)	-	ISO 1043
Part Marking Code	PA(6T/66)-GF45FR (40)	-	ISO 11469
Part Marking Code	>PPA-GF45FR<	-	SAE J1344
Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / -	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	15700 / -	MPa	ISO 527-1/-2
Stress at break	174 / -	MPa	ISO 527-1/-2
Strain at break	1.8 / -	%	ISO 527-1/-2
Flexural Modulus	15600 / -	MPa	ISO 178
Flexural Strength	255 / -	MPa	ISO 178
Charpy impact strength			ISO 179/1eU
73°F	47 / -	kJ/m ²	
-22°F	45 / -	kJ/m ²	
Charpy notched impact strength			ISO 179/1eA
73°F	8 / -	kJ/m ²	
-22°F	8 / -	kJ/m ²	
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, first heat	310 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 260 psi	283 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	17 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion			ISO 11359-1/-2
normal	55 / *	E-6/K	
Normal, -40-23°C	50 / *	E-6/K	
Normal, 55-160°C	95 / *	E-6/K	
Parallel, -40-23°C	15 / *	E-6/K	
Parallel, 55-160°C	15 / *	E-6/K	
RTI, electrical			UL 746B
15mil	140	°C	
30mil	140 / *	°C	
60mil	140 / *	°C	
120mil	140	°C	
RTI, strength			UL 746B
30mil	125	°C	
60mil	125 / *	°C	
120mil	130	°C	
Flammability	dry / cond	Unit	Test Standard
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	yes / *	-	UL 94
Other properties	dry / cond	Unit	Test Standard
Density	1610 / -	kg/m ³	ISO 1183

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

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Injection	Value	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥100	°C	-
Drying Time, Dehumidified Dryer	6 - 8	h	-
Processing Moisture Content	≤0.1	%	-
Min. melt temperature	320	°C	-
Max. melt temperature	325	°C	-
Min. mold temperature	90	°C	-
Max. mold temperature	130	°C	-

Characteristics			
Processing	• Injection Molding		
Regional Availability	• North America • Europe	• Asia Pacific • South and Central America	• Near East/Africa • Global

Processing Texts

Injection molding

For molding machine components, use corrosion resistant and wear resistant steel. For details please contact your DuPont representative. Limit the residence time of the resin in the machine. Use proper protective equipment and adequate ventilation.

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

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

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