DuPont™ Zytel® HTN

high performance polyamide resin

Product Information

PRELIMINARY DATA

Zytel® HTN53G35HSLRHF BK083

Zytel® HTN53G35HSLRHF BK083 is a 35% glass reinforced, heat stabilized, lubricated high performance polyamide resin, modified for improved flow. It maintains high stiffness and toughness at moderate temperatures and processes in water-heated molds.

Property	Test Method	Units	Value DAM
Identification			
Part Marking Code	ISO 11469		>PA-GF35<
Part Marking Code	SAE J1344		>PA-GF35<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	215 (31)
Strain at Break	ISO 527	%	2.8
Tensile Modulus	ISO 527	MPa (kpsi)	11000 (1595)
Flexural Modulus	ISO 178	MPa (kpsi)	10000 (1450)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	11
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	60
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
1.80MPa			230 (445)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min, First Heat			260 (500)

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
Other			
Water Absorption Immersion 24h, 2.0mm	ISO 62, Similar to	%	0.9
Processing			
Melt Temperature Range		°C (°F)	280-300 (535-570)
Melt Temperature Optimum		°C (°F)	290 (555)
Mold Temperature Range		°C (°F)	85-105 (190-220)
Mold Temperature Optimum		°C (°F)	95 (200)
Drying Time, Dehumidified Dryer		h	6-8
Drying Temperature		°C (°F)	100 (212)
Processing Moisture Content		%	<0.10

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