

Zytel® HTN 53G60LRHF BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

60% Glass Reinforced High Performance Polyamide with High Stiffness and Improved Flow

General Information				
Filler / Reinforcement		Glass Fiber,60% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA-GF60<		
Part Marking Code (SAE J1344)		>PA-GF60<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.72	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	21000	20000	MPa	ISO 527-2
Tensile Stress (Break)	265	225	MPa	ISO 527-2
Tensile Strain (Break)	2.2	2.6	%	ISO 527-2
Flexural Modulus	19100	--	MPa	ISO 178
Flexural Stress	405	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	17	15	kJ/m ²	
23°C	16	15	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	90	90	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Test Method	
Flammability Classification (1.50 mm)	HB	--	IEC 60695-11-10, -20	
NOTE				

1. First Heat

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