

Zytel® HTN FR55G50NHLW BK046

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

55% Glass Reinforced, Flame Retardant, Non-Halogenated, PPA, High Performance Polyamide with Low Warpage and High Stiffness

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Agency Ratings	UL Unspecified Rating		
Part Marking Code (ISO 11469)	>PA-GF50FR<		
Part Marking Code (SAE J1344)	>PPA-GF50FR<		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.20	%	
Flow	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17500	MPa	ISO 527-2
Tensile Stress (Break)	195	MPa	ISO 527-2
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus	16600	MPa	ISO 178
Flexural Stress	306	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	°C	ISO 75-2/A
Melting Temperature ¹	298	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.2E-5	cm/cm/°C	
Flow : -40 to 23°C	1.4E-5	cm/cm/°C	
Flow : 55 to 160°C	1.1E-5	cm/cm/°C	
Transverse	3.8E-5	cm/cm/°C	
Transverse : -40 to 23°C	3.6E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flammability Classification			IEC 60695-11-10, -20
0.400 mm	V-0		
1.50 mm	V-0		
NOTE			

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