

Zytel® HTN FR55G50NHLW NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

50% Glass Reinforced, Flame Retardant, Non-Halogenated, PPA, High Performance Polyamide with Low Warpage Characteristics

General Information			
UL YellowCard	E41938-101307096		
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Additive	Flame retardancy		
Features	Low warpage		
	Halogen-free		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Part Marking Code (ISO 11469)	>PA-GF50FR(40)		
Part Marking Code (SAE J1344)	>PPA-GF50FR		
Resin ID (ISO 1043)	PA-GF50FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.20	%	ISO 294-4
Flow	0.10	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ISO 527-2
Tensile Stress (Break)	200	MPa	ISO 527-2
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus	16600	MPa	ISO 178
Flexural Stress	305	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	217	°C	ISO 75-2/A
Melting Temperature ¹	298	°C	ISO 11357-3
RTI Elec			UL 746
0.40 mm	65.0	°C	UL 746
0.75 mm	65.0	°C	UL 746
1.5 mm	65.0	°C	UL 746
3.0 mm	65.0	°C	UL 746

RTI Imp			UL 746
0.40 mm	65.0	°C	UL 746
0.75 mm	65.0	°C	UL 746
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1.5 mm	65.0	°C	UL 746
3.0 mm	65.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	mm/min	ISO 3795
Flame Rating			UL 94, IEC 60695-11-10, -20
0.75 mm	V-0		UL 94, IEC 60695-11-10, -20
1.5 mm	V-0		UL 94, IEC 60695-11-10, -20
FMVSS Flammability	B		FMVSS 302
Drying Recommended	yes		
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time - Desiccant Dryer	6.0 - 8.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	300 - 315	°C	
Mold Temperature	70 - 130	°C	
NOTE			
1.	First Heat		
2.	FMVSS 302		

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