

Zytel® HTN 51G35FWS BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% glass reinforced, heat stabilized, hydrolysis resistant, PPA, high performance polyamide resin with improved fatigue and welding strength performance.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 35% filler by weight		
Additive		heat stabilizer		
Features		Weldable		
		Fatigue resistance		
		Hydrolysis resistance		
		Thermal Stability		
RoHS Compliance		Contact manufacturer		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6T/XT-GF35		
Part Marking Code (SAE J1344)		>PPA-GF35		
Resin ID (ISO 1043)		PA6T/XT-GF35		
Physical	Dry	Conditioned	Unit	Test Method
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	13000	MPa	ISO 527-2
Tensile Stress (Break)	230	210	MPa	ISO 527-2
Tensile Strain (Break)	2.6	2.6	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	263	--	°C	ISO 75-2/A
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ¹ (1.00 mm)	23	--	mm/min	ISO 3795
FMVSS Flammability	B	--		FMVSS 302

Odor	4.00	--	VDA 270
Melt Temperature, Optimum	325		°C
Mold Temperature, Optimum	150		°C
Drying Recommended	yes		
Injection	Dry	Unit	
Drying Temperature	100		°C
Drying Time - Desiccant Dryer	6.0 - 8.0		hr
Suggested Max Moisture	0.10		%
Processing (Melt) Temp	320 - 330		°C
Mold Temperature	140 - 180		°C
NOTE			
1.	FMVSS 302		

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