

Zytel® HTN 51G35EF BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, PPA, High Performance Polyamide Developed for Electrical and Electronics Applications

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6T/XT-GF35<		
Part Marking Code (SAE J1344)		>PPA-GF35<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12100	--	MPa	ISO 527-2
Tensile Stress (Break)	220	--	MPa	ISO 527-2
Tensile Strain (Break)	2.4	--	%	ISO 527-2
Flexural Modulus	11000	--	MPa	ISO 178
Flexural Stress	300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	57	--	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	264	--	°C	ISO 75-2/A
Melting Temperature ¹	300	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.8E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.0E-5	--	cm/cm/°C	
Transverse	5.7E-5	--	cm/cm/°C	

Transverse : -40 to 23°C	5.3E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	29	30	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	4.40	--		IEC 60250
Dissipation Factor (100 Hz)	0.016	--		IEC 60250
Comparative Tracking Index	525	--	V	IEC 60112
NOTE				

1. First Heat

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

