

Zytel® HTN 52G35EF BK420

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 Mold Release			
Features	Heat Stabilized			
Forms	Pellets			
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/66-GF35<			
Part Marking Code (SAE J1344)	>PPA-GF35<			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	12	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (325°C/2.16 kg)	11.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Viscosity Number	120	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	--	MPa	ISO 527-2
Tensile Stress (Break)	200	--	MPa	ISO 527-2
Tensile Strain (Break)	2.2	--	%	ISO 527-2
Flexural Modulus	10400	--	MPa	ISO 178
Flexural Stress	290	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	285	--	°C	ISO 75-2/A
Melting Temperature ¹	310	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	31	30	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.10	--	g/cm ³	
NOTE				

1. First Heat

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