

Zytel® HTN 92G45DH2 BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, PPA, High Performance Polyamide with DuPont

General Information				
Filler / Reinforcement		Glass Fiber,45% 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)		
Part Marking Code (ISO 11469)		>PA6T/66-GF45<		
Part Marking Code (SAE J1344)		>PPA-GF45<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	12500	MPa	ISO 527-2
Tensile Stress (Break)	214	168	MPa	ISO 527-2
Tensile Strain (Break)	2.2	2.5	%	ISO 527-2
Flexural Modulus	13000	--	MPa	ISO 178
Flexural Stress	300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	11	--	kJ/m ²	
23°C	11	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m ²	
23°C	70	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	284	--	°C	ISO 75-2/A
Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Flow : -40 to 23°C	1.5E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	5.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	1.0E+15	ohms·cm	IEC 60093
Electric Strength	33	31	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
NOTE				

1. First Heat

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