

Zytel® HTN FR52G30BL NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Flame Retardant, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-100915123	E41938-234547	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Lubricant		
		Mold Release		
Features		Lubricated		
Agency Ratings		UL Unspecified Rating		
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-GF30FR<		
Part Marking Code (SAE J1344)		>PPA-GF30FR<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (325°C/2.16 kg)	26.0	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Viscosity Number	120	--	cm³/g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	11000	MPa	ISO 527-2
Tensile Stress (Break)	170	150	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Flexural Modulus	10500	--	MPa	ISO 178
Flexural Stress	250	225	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	--	kJ/m²	
23°C	11	--	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	40	--	kJ/m ²	
-30°C	50	40	kJ/m ²	
23°C	50	30	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	300	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	282	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	90.0	--	°C	ISO 11357-2
Melting Temperature ²	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.0E-5	--	cm/cm/°C	
Flow : 55 to 160°C	1.0E-5	--	cm/cm/°C	
Transverse	6.3E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	5.7E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	34	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.50	--		
1 MHz	3.30	--		
Dissipation Factor				IEC 60250
100 Hz	5.0E-3	--		
1 MHz	0.014	--		
Comparative Tracking Index (CTI)	PLC 1	--		UL 746
Comparative Tracking Index				IEC 60112
--	525	--	V	
Solution B	175	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
	V-0			
1.50 mm	5VA	--		
Oxygen Index	42	--	%	ISO 4589-2
NOTE				
1.	10°C/min			

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