

Zytel® HTN FR52G30NH NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Flame Retardant, Non-Halogenated, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-521871		
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	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	10500	MPa	ISO 527-2
Tensile Stress (Break)	150	130	MPa	ISO 527-2
Tensile Strain (Break)	2.2	2.0	%	ISO 527-2
Flexural Modulus	9000	10000	MPa	ISO 178
Flexural Stress	230	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	7.0	kJ/m ²	
23°C	8.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	35	kJ/m ²	
23°C	45	40	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	283	--	°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	2.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	6.0E-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	36	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 mm	V-0	--		
1.50 mm	V-0	--		
Oxygen Index	37	--	%	ISO 4589-2
NOTE				
1.	10°C/min			
2.	First Heat			

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