

Zytel® HTN 51G35HSL NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234558		
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		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)		
		Shear Modulus vs. Temperature (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/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	12000	MPa	ISO 527-2
Tensile Stress (Break)	220	210	MPa	ISO 527-2
Tensile Strain (Break)	2.4	2.2	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	11000	MPa	
1000 hr	--	9500	MPa	
Flexural Modulus	10500	10500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-40°C	11	--	kJ/m ²	
-30°C	10	10	kJ/m ²	
23°C	11	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	45	kJ/m ²	
23°C	70	55	kJ/m ²	
Notched Izod Impact Strength (23°C)				ISO 180/1A
11		11	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	284	--	°C	ISO 75-2/B
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	1.8E-5	--	cm/cm/°C	
Transverse	5.5E-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	36	36	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.00	--		
1 MHz	4.00	--		
Comparative Tracking Index				IEC 60112
600		600	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.850 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	24	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	Test Method
Specific Heat Capacity of Melt				
1860		--	J/kg/°C	
Thermal Conductivity of Melt				
0.25		--	W/m/K	
Odor	4	--		VDA 270
NOTE				
1.	First Heat			

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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

