Zytel® HTN 53G50HSLR BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

50% Glass Reinforced High Performance Polyamide with Improved Impact and Stiffness

General Information	
UL YellowCard	E41938-234510
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer Mold Release
Features	Heat Stabilized
Agency Ratings	UL Unspecified Rating
Forms	Pellets
Processing Method	Injection Molding
Part Marking Code (ISO 11469)	>PA-GF50<
Part Marking Code (SAE J1344)	>PA-GF50<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.20	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	16500	MPa	ISO 527-2
Tensile Stress (Break)	250	215	MPa	ISO 527-2
Tensile Strain (Break)	2.7	3.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	10000	MPa	
1000 hr	--	7500	MPa	
Flexural Modulus	15300	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	13	kJ/m²	
23°C	14	13	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	65	kJ/m²	
23°C	95	90	kJ/m²	

Notched Izod Impact Strength (23°C)	100	--	kJ/m²	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	254	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	234	--	°C	ISO 75-2/A
Melting Temperature [1]	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.7E-5	--	cm/cm/°C	
Flow : -40 to 23°C	1.9E-5	--	cm/cm/°C	
Transverse	5.9E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	5.9E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	9.5E-5	--	cm/cm/°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	27	--	%	ISO 4589-2
NOTE				
1.	First Heat			

Recommended distributors for this material

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