Zytel® 70G50HSLA BK039B

NYLON RESIN

DuPont Performance Polymers

Message:

50% Glass Reinforced, Heat Stabilized, Polyamide 66

General Information	
UL YellowCard	E41938-314427
Filler / Reinforcement	Glass Fiber,50% 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) Shear Stress vs. Shear Rate (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Tensile Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)
Part Marking Code (ISO 11469)	>PA66-GF50<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	4.2	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.2	--	%	
Viscosity Number	100	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	17000	13000	MPa	ISO 527-2

Tensile Stress (Break)	260	210	MPa	ISO 527-2
Tensile Strain (Break)	2.3	3.2	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	10000	MPa	
1000 hr	--	8000	MPa	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	14	kJ/m^2	
23°C	18	20	kJ/m^2	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	90	kJ/m^2	
23°C	100	110	kJ/m^2	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	260	--	°C	ISO 75-2/A
Glass Transition Temperature [1]	80.0	--	°C	ISO 11357-2
Vicat Softening Temperature	255	--	°C	ISO 306/B50
Melting Temperature [2]	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	7.5E-5	--	cm/cm/°C	
Thermal Conductivity	0.46	--	W/m/K	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	4.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
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**
Melt Density	1.40	--	g/cm^3	
Specific Heat Capacity of Melt	1870	--	J/kg/°C	
Thermal Conductivity of Melt	0.31	--	W/m/K	
Emission of Organic Compounds	6.50	--	µgC/g	VDA 277
Odor	3	--		VDA 270

NOTE	
1.	10°C/min
2.	10°C/min

Recommended distributors for this material

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