Zytel® FG70G50HSLA BK309

NYLON RESIN

DuPont Performance Polymers

Message:

50% Glass Reinforced, Heat Stabilized, Polyamide 66 with Developed for Food Contact Applications

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

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)	250	190	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/m²	
23°C	18	20	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	90	kJ/m²	
23°C	100	110	kJ/m²	
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/cm³	
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			

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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