

Zytel® 70G33HS1L NC010

NYLON RESIN

DuPont Performance Polymers

Message:

33% Glass Reinforced, Heat Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-234409		
Filler / Reinforcement		Glass Fiber,33% 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 Stress vs. Shear Rate (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-GF33<		
Resin ID (ISO 1043)		PA66-GF33		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.30	--	%	
Water Absorption				
24 hr	1.2	--	%	ASTM D570
23°C, 24 hr, 2.00 mm	5.7	--	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	ISO 62
Viscosity Number	130	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	8000	MPa	ISO 527-2
Tensile Stress (Break)	200	140	MPa	ISO 527-2

Tensile Strain (Break)	3.5	5.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	8000	MPa	
1000 hr	--	5500	MPa	
Flexural Modulus	9300	6210	MPa	ISO 178
Flexural Stress	290	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	10	10	kJ/m ²	
-30°C	10	10	kJ/m ²	
23°C	13	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	75	kJ/m ²	
23°C	85	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	10	10	kJ/m ²	
-30°C	10	10	kJ/m ²	
23°C	12	15	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	70	kJ/m ²	
23°C	80	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	261	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	252	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	80.0	--	°C	ISO 11357-2
Melting Temperature ²	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.8E-5	--	cm/cm/°C	
Transverse	8.3E-5	--	cm/cm/°C	
Specific Heat Capacity	1330	--	J/kg/°C	
Specific Heat Capacity of Melt	2210	--	J/kg/°C	
Thermal Conductivity of Melt	0.22	--	W/m/K	
Emission of Organic Compounds	6.00	--	µgC/g	VDA 277
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+15	ohms	IEC 60093

Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Dielectric Constant				
1 kHz	4.50	--		ASTM D150
1 MHz	3.70	--		ASTM D150
100 Hz	4.20	--		IEC 60250
1 MHz	4.00	--		IEC 60250
Dissipation Factor				
1 MHz	2.0E-6	--		ASTM D150
100 Hz	0.010	--		IEC 60250
1 MHz	0.015	--		IEC 60250
Comparative Tracking Index (CTI) (3.00 mm)	PLC 1	--		UL 746
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ³ (1.00 mm)	28	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	24	--	%	ISO 4589-2
NOTE				
1.	10°C/min			
2.	10°C/min			
3.	SE/B			

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