

Zytel® 70G13HS1L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
13% Glass Reinforced, Heat Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-234399		
Filler / Reinforcement		Glass Fiber,13% 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)		
Part Marking Code (ISO 11469)		>PA66-GF13<		
Resin ID (ISO 1043)		PA66-GF13		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.70	--	%	
Water Absorption				
24 hr	1.7	--	%	ASTM D570
23°C, 24 hr, 2.00 mm	7.6	--	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	2.2	--	%	ISO 62
Viscosity Number	150	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5500	3500	MPa	ISO 527-2
Tensile Stress (Break)	120	75.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	13	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1

1 hr	--	3300	MPa	
1000 hr	--	2200	MPa	
Flexural Modulus	4900	2900	MPa	ISO 178
Flexural Stress	190	100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	4.5	--	kJ/m ²	
-30°C	--	4.0	kJ/m ²	
23°C	5.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	30	kJ/m ²	
23°C	32	70	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	4.5	3.0	kJ/m ²	
-30°C	4.5	3.0	kJ/m ²	
23°C	4.5	4.0	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	35	28	kJ/m ²	
23°C	40	55	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	258	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	238	--	°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	4.0E-5	--	cm/cm/°C	
Transverse	9.6E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms · cm	IEC 60093
Dissipation Factor				IEC 60250
100 Hz	7.0E-3	0.24		
1 MHz	7.0E-3	0.24		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.710 mm	HB	--		
1.50 mm	HB	--		
Fill Analysis	Dry	Conditioned	Unit	

Specific Heat Capacity of Melt	2370	--	J/kg/°C
Thermal Conductivity of Melt	0.16	--	W/m/K
Effective Thermal Diffusivity	0.0850	--	cSt

NOTE

1.	10°C/min
2.	10°C/min

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