

Zytel® 70G25HSLR NC010

NYLON RESIN
DuPont Performance Polymers

Message:

25% Glass Reinforced, Heat Stabilized, Hydrolysis Resistant, Polyamide 66

General Information				
UL YellowCard		E41938-234404		
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-GF25<		
Resin ID (ISO 1043)		PA66-GF25		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.4	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.0	--	%	
Viscosity Number	140	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	260	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8400	6100	MPa	ISO 527-2
Tensile Stress (Break)	180	120	MPa	ISO 527-2

Tensile Strain (Break)	3.0	7.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	7.0	kJ/m ²	
23°C	10	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	45	kJ/m ²	
23°C	60	80	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
Vicat Softening Temperature	257	--	°C	ISO 306/B50
Melting Temperature ²	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.3E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Relative Permittivity (100 Hz)	3.60	--		IEC 60250
Dissipation Factor (100 Hz)	7.0E-3	--		IEC 60250
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	26	--	mm/min	ISO 3795
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density	1.15	--	g/cm ³	
Specific Heat Capacity of Melt	2090	--	J/kg/°C	
Thermal Conductivity of Melt	0.21	--	W/m/K	
Odor	3.5	--		VDA 270
NOTE				
1.	10°C/min			
2.	10°C/min			

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