

Zytel® 73G30L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
30% Glass Reinforced Polyamide 6

General Information				
UL YellowCard		E41938-234338		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Lubricant		
		Mold Release		
Features		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6-GF30<		
Resin ID (ISO 1043)		PA6-GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.3	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.9	--	%	
Viscosity Number	150	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9800	6000	MPa	ISO 527-2
Tensile Stress (Break)	185	115	MPa	ISO 527-2
Tensile Strain (Break)	3.5	6.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	5500	MPa	
1000 hr	--	4400	MPa	
Flexural Modulus	8200	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	11	--	kJ/m ²	
-30°C	11	21	kJ/m ²	
23°C	16	23	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	84	kJ/m ²	
23°C	100	97	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	11	--	kJ/m ²	
-30°C	11	11	kJ/m ²	
23°C	15	20	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	90	--	kJ/m ²	
23°C	100	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	65.0	--	°C	ISO 11357-2
Melting Temperature ²	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 0	--		UL 746
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	25	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	21	--	%	ISO 4589-2
NOTE				
1.	10°C/min			
2.	10°C/min			

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