

Zytel® 73G30T NC010

NYLON RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Toughened, Polyamide 6

General Information				
UL YellowCard		E41938-234339		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Mold Release		
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 Modulus vs. Temperature (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-IGF30<		
Resin ID (ISO 1043)		PA6-IGF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.2	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Viscosity Number	135	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9100	5700	MPa	ISO 527-2
Tensile Stress (Break)	170	110	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Flexural Modulus	9000	5700	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	12	kJ/m ²	

23°C	20	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	100	94	kJ/m ²	
23°C	100	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	12	12	kJ/m ²	
23°C	17	24	kJ/m ²	
Unnotched Izod Impact Strength (23°C)				ISO 180/1U
80	80	kJ/m ²		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	221	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
Vicat Softening Temperature				
215	--	°C		ISO 306/B50
Melting Temperature ¹	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.8E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index				
550	--	V		IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	22	--	mm/min	ISO 3795
Flammability Classification (1.50 mm)				
HB	--			IEC 60695-11-10, -20
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.31	--	g/cm ³	
Specific Heat Capacity of Melt				
2200	--	J/kg/°C		
Thermal Conductivity of Melt				
0.23	--	W/m/K		
NOTE				
1.	10°C/min			

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