

Zytel® 73G30HSL NC010

NYLON RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Heat Stabilized, Polyamide 6

General Information				
UL YellowCard		E41938-234337		
Filler / Reinforcement		Glass Fiber,30% 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		Coefficient of Thermal Expansion vs. Temperature (ISO 11403-1)		
		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
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
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	230	150	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	6000	MPa	ISO 527-2
Tensile Stress (Break)	190	120	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	--	4600	MPa	
Flexural Modulus ¹	8500	5500	MPa	ISO 178
Flexural Stress ²	280	180	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	21	kJ/m ²	
23°C	16	23	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	80	kJ/m ²	
23°C	100	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	10	11	kJ/m ²	
23°C	15	20	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	80	--	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy (23°C)	3.50	6.50	J	ISO 6603-2
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 ³	65.0	--	°C	ISO 11357-2
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature ⁴	221	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.6E-5	--	cm/cm/°C	
Transverse	7.5E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	50	--	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
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density	1.20	--	g/cm ³	
Specific Heat Capacity of Melt	2280	--	J/kg/°C	
Thermal Conductivity of Melt	0.26	--	W/m/K	
Effective Thermal Diffusivity	0.0910	--	cSt	
Emission of Organic Compounds	8.50	--	µgC/g	VDA 277
NOTE				
1.	PV			
2.	PV			
3.	10°C/min			
4.	10°C/min			

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