

Zytel® 73G15L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
15% Glass Reinforced Polyamide 6

General Information				
UL YellowCard		E41938-234331		
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Additive		Lubricant		
		Mold Release		
Features		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)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6-GF15<		
Resin ID (ISO 1043)		PA6-GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	7.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.5	--	%	
Viscosity Number	150	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	3500	MPa	ISO 527-2
Tensile Stress (Break)	135	72.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	10	%	ISO 527-2
Flexural Modulus	5000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-40°C	6.0	--	kJ/m ²	
-30°C	6.0	14	kJ/m ²	
23°C	7.0	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	54	kJ/m ²	
23°C	50	95	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	5.0	--	kJ/m ²	
-30°C	5.0	--	kJ/m ²	
23°C	6.0	12	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-40°C	40	--	kJ/m ²	
23°C	45	--	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	200	--	°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	3.7E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	25	--	mm/min	ISO 3795
	HB			
Flammability Classification (1.50 mm)	HB	--		IEC 60695-11-10, -20
Oxygen Index	21	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density	1.07	--	g/cm ³	
Specific Heat Capacity of Melt	2470	--	J/kg/°C	
Thermal Conductivity of Melt	0.19	--	W/m/K	
Emission of Organic Compounds	8.50	--	µgC/g	VDA 277
Odor	4	--		VDA 270
NOTE				
1.	10°C/min			
2.	DS			

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