

Zytel® 73G45L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
45% Glass Reinforced Polyamide 6

General Information				
UL YellowCard		E41938-234344		
Filler / Reinforcement		Glass Fiber,45% 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-GF45<		
Resin ID (ISO 1043)		PA6-GF45		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	4.9	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.5	--	%	
Viscosity Number	135	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	9700	MPa	ISO 527-2
Tensile Stress (Break)	230	160	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	9400	MPa	
1000 hr	--	7300	MPa	

Flexural Modulus	13000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	19	23	kJ/m ²	
23°C	20	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	120	100	kJ/m ²	
23°C	120	110	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	15	--	kJ/m ²	
23°C	18	24	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	213	--	°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	1.6E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	44	--	mm/min	ISO 3795
	HB			
Flammability Classification (1.50 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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