

Zytel® 73G45 BK263

NYLON RESIN
DuPont Performance Polymers

Message:
45% Glass Reinforced Polyamide 6

General Information				
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Additive		Mold Release		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-GF45<		
Resin ID (ISO 1043)		PA6-GF45		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm³	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	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14200	9000	MPa	ISO 527-2
Tensile Stress (Break)	215	145	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	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	24	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	100	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	17	22	kJ/m²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	218	--	°C	ISO 75-2/A
Melting Temperature ¹	221	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	500	--	V	IEC 60112
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.33	--	g/cm ³	
Specific Heat Capacity of Melt	2100	--	J/kg/°C	
Thermal Conductivity of Melt	0.26	--	W/m/K	
NOTE				

1. 10°C/min

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