

Zytel® 70G43HSLA BK099

NYLON RESIN
DuPont Performance Polymers

Message:
43% Glass Reinforced, Heat Stabilized, Polyamide 66

General Information				
Filler / Reinforcement		Glass Fiber,43% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Forms		Pellets		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF43<		
Resin ID (ISO 1043)		PA66-GF43		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	7.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.2	--	%	
Viscosity Number	120	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14000	11000	MPa	ISO 527-2
Tensile Stress (Break)	225	160	MPa	ISO 527-2
Tensile Strain (Break)	2.5	3.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	95	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	14	16	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy (23°C)	4.40	--	J	ISO 6603-2
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	258	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	80.0	--	°C	ISO 11357-2
Melting Temperature ²	262	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	25	--	kV/mm	IEC 60243-1
Dissipation Factor				IEC 60250
100 Hz	0.013	--		
1 MHz	0.015	--		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	24	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	
Thermal Conductivity of Melt	0.25	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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