

Zytel® PLUS PLS95G50DH2 BK261

NYLON RESIN

DuPont Performance Polymers

Message:

50% Glass Reinforced, Heat Stabilized, Polyamide

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		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)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA-GF50<		
Resin ID (ISO 1043)		PA-GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	1.3	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16900	12300	MPa	ISO 527-2
Tensile Stress (Break)	247	175	MPa	ISO 527-2
Tensile Strain (Break)	2.6	5.0	%	ISO 527-2
Flexural Modulus	15700	--	MPa	ISO 178
Flexural Stress	374	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	18	--	kJ/m ²	
23°C	16	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	85	kJ/m ²	
23°C	95	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	263	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	254	--	°C	ISO 75-2/A
Melting Temperature ¹	265	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	8.5E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method
Flammability Classification (1.50 mm)	HB	--		IEC 60695-11-10, -20
NOTE				

1. 10°C/min

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