

Zytel® PLUS PLS93G35DH1 BK261

NYLON RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, Heat Stabilized, Polyamide 6

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6-GF35<		
Resin ID (ISO 1043)		PA6-GF35		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	6500	MPa	ISO 527-2
Tensile Stress (Break)	197	120	MPa	ISO 527-2
Tensile Strain (Break)	3.5	7.0	%	ISO 527-2
Flexural Modulus	10100	--	MPa	ISO 178
Flexural Stress	309	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	--	kJ/m ²	
23°C	15	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	81	83	kJ/m ²	
23°C	96	93	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	212	--	°C	ISO 75-2/A
Melting Temperature ¹	224	--	°C	ISO 11357-3

CLTE				ISO 11359-2
Flow	3.0E-6	--	cm/cm/°C	
Transverse	1.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	6.1E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	7.1E+13	ohms·cm	IEC 60093
Comparative Tracking Index	550	--	V	IEC 60112
NOTE				

1. 10°C/min

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