

DuPont™ Zytel® PLUS

nylon resin

PRELIMINARY DATA

Zytel® PLS95G35DH1 BK031

Zytel® PLS95G35DH1 BK031 is a high flow 35% glass reinforced PA using SHIELD Technology, only from DuPont, combining excellent surface appearance, excellent welding and fatigue retention, exceptional resistance in hot air & hot engine oil.

Property	Test Method	Units	Value		
			DAM	50%RH	
Identification					
Resin Identification	ISO 1043		PA-GF35		
Part Marking Code	ISO 11469		>PA-GF35<		
Mechanical					
Stress at Break	ISO 527	MPa (kpsi)	210 (30.2)	135 (19.6)	
Strain at Break	ISO 527	%	3.5	7.0	
Tensile Modulus	ISO 527	MPa (kpsi)	11000 (1595)	7500 (1087)	
Flexural Modulus	ISO 178	MPa (kpsi)	9800 (1421)		
Flexural Strength	ISO 178	MPa (kpsi)	316 (45.8)		
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²			
			-30°C (-22°F)	13	
			23°C (73°F)	14	
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²			
			-30°C (-22°F)	68	70
			23°C (73°F)	87	100
Thermal					
Deflection Temperature	ISO 75-1/-2	°C (°F)			
			0.45MPa	263 (505)	
			1.80MPa	250 (482)	
Melting Temperature	ISO 11357-1/-3	°C (°F)			
			10°C/min	266 (511)	

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Property	Test Method	Units	Value	
			DAM	50%RH
Thermal				
CLTE, Parallel 23 - 55°C (73 - 130°F)	ISO 11359-1/-2	E-4/C (E-4/F)	0.12 (0.07)	
CLTE, Normal 23 - 55°C (73 - 130°F)	ISO 11359-1/-2	E-4/C (E-4/F)	0.95 (0.53)	
Electrical				
Surface Resistivity	IEC 60093	ohm	1E15	4.5E14
Volume Resistivity	IEC 60093	ohm m	3E14	6.7E12
CTI	IEC 60112	V	>600	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1420 (1.42)	
Water Absorption Equilibrium 50%RH	ISO 62, Similar to	%	1.8	
Saturation, immersed		%	6	
Molding Shrinkage Normal, 2.0mm	ISO 294-4	%	0.75	
Parallel, 2.0mm		%	0.2	
Processing				
Melt Temperature Range		°C (°F)	280-300 (535-572)	
Melt Temperature Optimum		°C (°F)	290 (555)	
Mold Temperature Range		°C (°F)	70-120 (160-250)	
Mold Temperature Optimum		°C (°F)	100 (210)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.2	

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