



PolixL PA66GF50BK

PA66, 50% Fiberglass Reinforced, Black, Heat Stabilized

Physical	DAM	Conditioned	Test Method
Specific Gravity, g/cc	1.57	-	D792
Mold Shrinkage, % Parallel: 23 °C Perpendicular :23°C	0.2-0.4 0.6-0.8	-	D955
Water Absorption, % Equilibrium, 23 °C, 50% RH	1.0	-	D570
Ash (Glass-fiber), %	50	-	D2584

Mechanical	DAM	Conditioned	Test Method
Tensile Modulus, psi (MPa)	2,320,600 (16,000)	1,740,450 (12,000)	ISO 527
Tensile Strength (Break), psi (MPa)	31,910 (220)	20,305 (140)	ISO 527
Tensile Strain (Break), %	2	4	ISO 527
Flexural Modulus, psi (MPa)	2,100,000 (14,480)	1,450 380 (10,000)	ISO 178
Flex Strength, psi (MPa)	56,565 (390)	33,360 (230)	ISO 178

Impact	DAM	Conditioned	Test Method
Charpy Notched Impact Strength ft-lb/ in (kJ/m ²) 23 °C -30 °C	3.0(16) 2.6(14)	3.2 (17) 2.4(13)	ISO 179
Charpy Unnotched Impact Strength, ft-lb/in (kJ/m ²) 23°C -30 °C	18.7 (100) 18.7 (100)	18.7 (100) 16.9 (90)	ISO 179
Notched Izod Impact Strength, ft-lb/ in (kJ/m ²) 23°C -30 °C	2.2 (12) 1.9 (10)	2.4 (13) 1.7 (9)	ISO 180

Thermal	DAM	Conditioned	Test Method
Heat Deflection Temperature, °F (°C) 0.45 MPa Unannealed 1.8 MPa Unannealed	502 (261) 490 (254)	- -	ISO 75
Melting Temperature, °F (°C)	504 (262)	-	ISO 11357

Flammability	DAM	Conditioned	Test Method
0.71 mm	HB	HB	UL94
1.50 mm	HB	HB	UL94
3.00 mm	HB	HB	UL94



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