



PoliXL PA66GF15N

PA66, 15% Fiberglass Reinforced, Natural, Lubricated

Physical	DAM	Conditioned	Test Method
Specific Gravity, g/cc	1.22	-	D792
Mold Shrinkage, %			
Parallel: 23 °C	0.7	-	D955
Perpendicular :23°C	1.2	-	
Water Absorption, %			
Equilibrium, 23 °C, 50% RH	2.2	-	D570
Ash (Glass-fiber), %	13	13	D2584

Mechanical	DAM	Conditioned	Test Method
Tensile Modulus, psi (MPa)	800,000 (5500)	508,000 (3500)	ISO 527
Tensile Strength (Break), psi (MPa)	17,400 (120)	10,900 (75)	ISO 527
Tensile Strain (Break), %	3	13	ISO 527
Flexural Modulus, psi (MPa)	710,700 (4900)	420,600 (2900)	ISO 178
Flex Strength, psi (MPa)	25,000 (172)	14,500 (100)	ISO 178

Impact	DAM	Conditioned	Test Method
Charpy Notched Impact Strength ft-lb/ in (kJ/m ²)			
23 °C	0.94 (5)	1.12 (6)	ISO 179
-30 °C	-	0.75 (4)	
Charpy Unnotched Impact Strength, ft-lb/in (kJ/m ²)			
23°C	6.0 (32)	13.11 (70)	ISO 179
-30 °C	5.6 (30)	5.6 (30)	
Notched Izod Impact Strength, ft-lb/ in (kJ/m ²)			
23°C	0.9 (4.8)	0.75 (4)	ISO 180
-30 °C	0.9 (4.8)	0.56 (3)	

Thermal	DAM	Conditioned	Test Method
Heat Deflection Temperature, °F (°C)			
0.45 MPa Unannealed	496 (258)	-	ISO 75
1.8 MPa Unannealed	464 (240)	-	
Melting Temperature, °F (°C)	504 (262)	-	ISO 11357

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



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