



PoliXL™ PA66M40N

Nylon 66, 40% Mineral Reinforced, Natural, Heat Stabilized

Physical	DAM	Conditioned	Test Method
Specific Gravity, g/cc	1.5	-	D792
Mold Shrinkage, % Parallel: 23 °C Perpendicular :23°C	0.4 - 0.6 0.7 - 0.9	- -	ISO 294-4
Water Absorption, % Equilibrium, 23 °C, 50% RH	1	-	ISO 62
Ash (Mineral), %	40	-	D2584

Mechanical	DAM	Conditioned	Test Method
Tensile Modulus, psi (MPa)	1,400,000 (9,600)	362,590 (2,500)	ISO 527
Tensile Strength (Break), psi (MPa)	13,300 (92)	8,700 (6)	ISO 527
Tensile Strain (Break), %	3	5	ISO 527
Flexural Modulus, psi (MPa)	1,300,000 (9,000)	700,000 (4,800)	ISO 178
Flex Strength, psi (MPa)	45,000 (310)	-	ISO 178

Impact	DAM	Conditioned	Test Method
Charpy Notched Impact Strength ft-lb/ in (kJ/m ²) 23 °C -30 °C	1.12 (6) 0.56 (3)	1.7 (9) 0.56 (3)	ISO 179
Charpy Unnotched Impact Strength, ft-lb/in (kJ/m ²) 23°C -30 °C	24 (126) 15 (80)	24 (126) 15 (80)	ISO 179
Notched Izod Impact Strength, ft-lb/ in (kJ/m ²) 23°C -30 °C	0.65 (3.5) 0.56 (3)	0.84 (4.5) 0.65 (3.5)	ISO 180

Thermal	DAM	Conditioned	Test Method
Heat Deflection Temperature, °F (°C) 0.45 MPa Unannealed 1.8 MPa Unannealed	473 (245) 401 (205)	- -	ISO 75
Melting Temperature, °F (°C)	505 (263)	-	DSC

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



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