



PoliXL™ PA66HIN

Nylon 66, High Impact, Natural, Heat Stabilized

Physical	DAM	Conditioned	Test Method
Specific Gravity, g/cc	1.1	-	D792
Mold Shrinkage, % Parallel: 23 °C Perpendicular :23°C	1.8 - 2 1.8 - 2	- -	D955
Water Absorption, % Equilibrium, 23 °C, 50% RH	2	-	D570
Ash, %	-	-	D2584

Mechanical	DAM	Conditioned	Test Method
Tensile Modulus, psi (MPa)	300,000 (2,070)	160,000 (1,100)	ISO 527
Tensile Strength (Break), psi (MPa)	8,000 (55)	5,600 (39)	ISO 527
Tensile Strain (Break), %	50	50	ISO 527
Flexural Modulus, psi (MPa)	275,000 (1,900)	116,000 (800)	ISO 178
Flex Strength, psi (MPa)	11,000 (76)	6,000 (41)	ISO 178

Impact	DAM	Conditioned	Test Method
Charpy Notched Impact Strength ft-lb/ in (kJ/m ²) 23 °C -30 °C	16 (85) 3.3 (18)	2 (105) 3.3 (18)	ISO 179
Charpy Unnotched Impact Strength, ft-lb/in (kJ/m ²) 23°C -30 °C	NB (NB) NB (NB)	NB (NB) NB (NB)	ISO 179
Notched Izod Impact Strength, ft-lb/ in (kJ/m ²) 23°C -30 °C	16 (85) 3.5 (19)	16.6 (88) 4.6 (25)	ISO 180

Thermal	DAM	Conditioned	Test Method
Heat Deflection Temperature, °F (°C) 0.45 MPa Unannealed 1.8 MPa Unannealed	302 (150) 144 (62)	- -	ISO 75
Melting Temperature, °F (°C)	504 (262)	-	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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