



## PoliXL™ PA66BK

Nylon 66, Unmodified, Black, Heat Stabilized

Physical	DAM	Conditioned	Test Method
Specific Gravity, g/cc	1.13	-	D792
Mold Shrinkage, %			D955
Parallel: 23 °C	1.3 - 1.5 %	-	
Perpendicular :23°C	1.3 - 1.5 %	-	
Water Absorption, %			D570
Equilibrium, 23 °C, 50% RH	2	-	
Ash, %	-	-	D2584

Mechanical	DAM	Conditioned	Test Method
Tensile Modulus, psi (MPa)	390,000 (2,700)	200,000 (1,400)	ISO 527
Tensile Strength (Break), psi (MPa)	11,000 (75)	7,700 (53)	D638
Tensile Strain (Break), %	20	50	D638
Flexural Modulus, psi (MPa)	410,000 (2,830)	180,000 (1,200)	D790
Flex Strength, psi (MPa)	16,500 (113)	-	D790

Impact	DAM	Conditioned	Test Method
Charpy Notched Impact Strength ft-lb/ in (kJ/m <sup>2</sup> )			ISO 179
23 °C	0.93 (5)	2.25 (12)	
-30 °C	0.55 (3)	0.55 (3)	
Charpy Unnotched Impact Strength, ft-lb/in (kJ/m <sup>2</sup> )			ISO 179
23°C	-	-	
-30 °C	-	-	
Notched Izod Impact Strength, ft-lb/ in (kJ/m <sup>2</sup> )			D256
23°C	1 (5.5)	-	
-30 °C	0.6 (3)	-	

Thermal	DAM	Conditioned	Test Method
Heat Deflection Temperature, °F (°C)			ISO 75
0.45 MPa Unannealed	392 (200)	-	
1.8 MPa Unannealed	158 (70)	-	
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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