



PROPERTIES

WINDFORM™ XT

	Units	Windform™ XT (carbon filled)	Alumide®	Duraform PA (unfilled)	Duraform GF (20% GF)	Nylon PA6*	ABS*
General Properties							
Density (20C)	g/cm ³	1.101	1.35	0.97	1.4	1.12	1.05
Colour		Dark	silver	white	off-white	-	-
Thermal Properties							
Melting Point	C	179.33	172	184	185	220	240
HDT,1.82 Mpa	C	175.4	177.1	86	110	66	91
Mechanical Properties							
Tensile Strength	Mpa	77.85	46	44	38.1	72	41.5
Tensile Modulus	Mpa	7320.8	3800	1600	5910	1900	2400
Elongation at break	%	2.6	4	9	2	90	27.3
Flexural Strength	Mpa	131.52	71			85	71.8
Flexural Modulus	Mpa	6248.5	2900	1285	3300	2000	2400
Impact Strength Unnotched 23C	KJ/m ²	32.4	29	428	101	16.2	100
Impact Strength Notched 23C	KJ/m ²	4.73	4.6	214	96	8.01	16
Impact Strength Notched -30C	KJ/m ²	4.66	-	-	-	5.2	7
Surface Finish							
After SLS Process	Ra µm	6	-	8.5	6.2	-	-
After Finishing	Ra µm	1.8	-	0.13	1	-	-
Properties per Density Unit							
UTS per Density Unit	Mpa x g/cm ³	70.71	34.07	45.36	27.21	64.29	39.52
Tensile Modulus per Density Unit	Mpa x g/cm ³	6649.2	2814.8	1649.5	4221.4	1696.43	2285.71

* averages are used for comparative purposes only.