

CRP Technology Windform® FX Polyamide Composite

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Nylon

Material Notes:

Processed by selective laser sintering (SLS). Windform® FX is a new generation polyamide based material, whose repeatability and mechanical characteristics make it particularly suited for Additive Manufacturing applications. White colored, Windform® FX is characterized by exceptional resistance and resilience to repeated bending and torsion applications; excellent impact resistance; consistency and behaviour similar to polypropylene and ABS injection moulded parts. Windform® FX is perfect for building accurate, reliable and long lasting prototypes; no further treatments are needed. The powder also benefits from extended recycling and lower refresh rates. Sample applications: Flexible components, functional parts with living hinges or clip fittings. In addition, ducts of a complex shape, with thin walls, particularly suited for aerospace and motorsport, dashboards and grids, fenders, fans and connectors. Information provided by CRP Technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CRP-Technology-Windform-FX-Polyamide-Composite.php

Physical Properties	Metric	English	Comments
Density	1.027 g/cc	0.03710 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.96 MPa	7101 psi	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Elongation at Break	43.9 %	43.9 %	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Tensile Modulus	1.357 GPa	196.8 ksi	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Flexural Strength	45.0 MPa	6530 psi	UNI EN ISO 14125: 2000
Flexural Modulus	0.952 GPa	138 ksi	UNI EN ISO 14125: 2000
Charpy Impact Unnotched	3.172 J/cm ²	15.10 ft-lb/in ²	ISO 179-1:2007
Charpy Impact, Notched	0.325 J/cm ²	1.55 ft-lb/in ²	ISO 179-1:2007

Thermal Properties	Metric	English	Comments
Melting Point	190.7 °C	375.3 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	47.10 °C	116.8 °F	ASTM D648
Vicat Softening Point	187.6 °C	369.7 °F	10 N; ASTM D1525

Electrical Properties	Metric	English	Comments
Electrical Resistivity			ASTM D257

Electrical Properties	2.30e+14 ohm-cm Metric	2.30e+14 ohm-cm English	Comments
Surface Resistance	9.00e+13 ohm	9.00e+13 ohm	ASTM D257

Descriptive Properties	Value	Comments
Color	White	
Surface Finish	2.0 Ra μm	After Finishing
	6.0 Ra μm	After SLS Process

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