

TECHNICAL DATA SHEET

TECHNYL LITE C 118 C60 T130 BK

TECHNYL Lite C130 C60



TECHNYL LITE C 118 C60 T130 BK is an UD TAPE material, polyamide 6, reinforced with 60% of carbon fiber, heat stabilized. It offers a superior mechanical properties (high strength to weight ratio), excellent toughness, very good processability, high fiber impregnation, optimal cost performance ratio, for highly demanding applications.

General

Polymer type	PA6	
Certifications	RoHS	EC 1907/2006 (REACH)
Feature	heat-aging stabilized high stiffness	excellent processability
Applications	structural	
Colors available	black	
Forms	tapes	
Processing technology	tape manufacture tape laying winding	hybrid molding weaving

Product identification

Condition	Standard	Unit	Value
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Physical properties

Tape density		ISO 1183-1	g/cm ²	1.48
Tape thickness			mm	0.13
Areal weight			g/m ²	190.0
Fiber mass content		DIN EN ISO 11358-1	%	60.0
Fiber volume content			%	48.0

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Axial tensile modulus (0°)			MPa	100000.0
Axial stress at break (0°)		ISO 527-5	MPa	1500.0
Axial strain at break (0°)			%	1.6
Axial bending modulus (0°)		DIN EN ISO 14125	MPa	83000.0
Axial bending strength (0°)		DIN EN ISO 14125	MPa	1150.0

***: conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221