

TECHNICAL DATA SHEET

TECHNYL LITE C 118 C60 T210 BK
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TECHNYL LITE C 118 C60 T210 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

Certifications	RoHS	EC 1907/2006 (REACH)
Polymer type	PA6	
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

Condition	Standard	Unit	Value
Tape density	ISO 1183-1	g/cm ²	1.48
Tape thickness		mm	0.21
Areal weight		g/m ²	306.0
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