

SGL Carbon Fibers

PRODUCT DATA SHEET

SIGRAFIL[®] C50 T024 EPY 24k Continuous Carbon Fiber

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24k Continuous Carbon Fiber

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Physical Properties

Description	Unit	Min	Nom	Max
Density	g/cm ³	1.78	1.82	1.86
Mass per unit length	g/m	1.56	1.6	1.64
Size type	EPY			
Size level	%	0.7	1.0	1.3
Single Filament Resistivity	Ωcm	0.0005	-	0.0038

Mechanical Properties

Description	Unit	Min	Nom	Max
Tow Strength	ksi	667	725	783
	GPa	4.6	5.0	5.4
Tow Modulus	Msi	37	39	41
	GPa	255	265	275
Tow Elongation	%	-	1.9	-

Spool Presentation

Cardboard core dimensions	mm in	290 long x 76 inner diameter 11.4 long x 3.0 inner diameter
A-Spool weight	kg lb	6 13.2
Typical yield	m per kg ft per lb	630 940

Product Certification

Tow and Fibre Properties reported	<ul style="list-style-type: none"> • Certification based on BS EN ISO/IEC 17050-1: 2010 • Certification is based on Lot average • Certified Properties are: <ul style="list-style-type: none"> ○ Carbon density ○ Mass per unit length ○ Size level ○ Tow strength ○ Tow modulus
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