

SGL Carbon Group SIGRAFIL CÂ® C25 S003 APS Staple Carbon Fiber, Aromatic Polymer Sizing

Category : Carbon , Carbon Fiber , Other Engineering Material , Composite Fibers

Material Notes:

In its precision cut staple form SIGRAFIL C is a superior free-flowing material suitable for low and high temperature thermoplastic injection-molding processes. It is also an excellent way of making plastics or other non-conductive bulk materials electrically conductive e.g. glues, resin systems, and specialty paper. Further important uses include fuel cells, cement reinforcement and applications where enhanced chemical resistance is needed. The sizing type and surface treatment can be tailored for individual end uses. Information provided by SGL Carbon Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_SGL-Carbon-Group-SIGRAFIL-C-C25-S003-APS-Staple-Carbon-Fiber-Aromatic-Polymer-Sizing.php

Physical Properties	Metric	English	Comments
Bulk Density	0.360 g/cc	0.0130 lb/in ³	
Density	1.80 g/cc	0.0650 lb/in ³	Fiber Density
Filament Diameter	7.5 Åµm	7.5 Åµm	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	3600 MPa	522000 psi	ASTM D3379-81
Elongation at Break	1.4 - 1.8 %	1.4 - 1.8 %	ASTM D3379-75
Modulus of Elasticity	225 GPa	32600 ksi	ASTM D3379-81

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0016 ohm-cm	0.0016 ohm-cm	

Descriptive Properties	Value	Comments
Carbon Content, wt %	>95	
Mean Fiber Length, mm	3	Chopped
Sizing Content, % by weight	0.5 - 1.5	

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