

## Applied Nanostructured Solutions Carbon NanoStructure Chopped Fiber

Category : Carbon , Carbon Fiber , Other Engineering Material , Additive/Filler for Polymer , Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Carbon Fiber Filled

### Material Notes:

Carbon NanoStructure (CNS) Chopped Fiber begins as a single-end glass roving product, such as E-CR glass, that is enhanced using a proprietary ANS process. Unique multiwall carbon nanotube-based CNS are added to the glass surface, endowing the product with multifunctional properties. This CNS-infused chopped glass product is designed for use as a reinforcement for thermoset and thermoplastic resins that not only yields enhanced mechanical properties, but also makes the material conductive.\*Properties are for PC/ABS CNS-infused glass fiber 3%Information provided by Applied Nanostructured Solutions (ANS)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Applied-Nanostructured-Solutions-Carbon-NanoStructure-Chopped-Fiber.php](http://www.lookpolymers.com/polymer_Applied-Nanostructured-Solutions-Carbon-NanoStructure-Chopped-Fiber.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.150 g/cc	0.00542 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength	100 MPa	14500 psi	ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	8.76 GPa	1270 ksi	ASTM D790

Electrical Properties	Metric	English	Comments
Shielding Effectiveness	35 dB	35 dB	15% glass; ASTM D4935
	@Thickness 3.00 mm, Frequency 3.00e+7 Hz	@Thickness 0.118 in, Frequency 3.00e+7 Hz	
	40 dB	40 dB	15% glass; ASTM D4935
	@Thickness 3.00 mm, Frequency 2.03e+9 Hz	@Thickness 0.118 in, Frequency 2.03e+9 Hz	
	44 dB	44 dB	25% glass; ASTM D4935
	@Thickness 3.00 mm, Frequency 3.00e+7 Hz	@Thickness 0.118 in, Frequency 3.00e+7 Hz	
	50 dB	50 dB	25% glass; ASTM D4935
	@Thickness 3.00 mm, Frequency 2.03e+9 Hz	@Thickness 0.118 in, Frequency 2.03e+9 Hz	
	51 dB	51 dB	30% glass; ASTM D4935
	@Thickness 3.00 mm, Frequency 3.00e+7 Hz	@Thickness 0.118 in, Frequency 3.00e+7 Hz	

Electrical Properties	Metric	English	Comments
	@Thickness 3.00 mm, Frequency 2.03e+9 Hz	@Thickness 0.118 in, Frequency 2.03e+9 Hz	30% glass; ASTM D4935

Processing Properties	Metric	English	Comments
Moisture Content	<= 2.0 %	<= 2.0 %	

Descriptive Properties	Value	Comments
% Sizing, type	~5%	Polyurethane
Chop Length	6mm	
Glass Tex	850	
Glass Type	E-CR	

## Contact Songhan Plastic Technology Co.,Ltd.

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