

## Insight™ PANC53 SD

### Polypropylene ESD W/Carbon Nanotubes

Insight™ PANC53 SD is a statically dissipative PP for Fused Granulate Fabrication(FGF) and filament production in 3D printing for use in jigs, fixtures and tooling and applications that require ESD properties. Insight™ PANC53 SD has surface resistivity <1 E09 and are safe to use in contact with electronic components when processed properly. Finished part testing is always required as processing can affect final part performance.

#### Insight™ PANC53 SD - PP ESD W CNT

General	SI Metric	English	Test Method
Specific Gravity	0.94	0.94	ASTM D792
Melt Point	76 °C	170 °F	ASTM D3418
<b>Mechanical</b>			
Tensile Modulus	1600 Mpa	2.3 x 10 <sup>5</sup> psi	ASTM D638
Tensile Strength	41 Mpa	5900 psi	ASTM D638
Elongation at Break	7%	7%	ASTM D638
Flexural Modulus	1200 Mpa	1.7 x 10 <sup>5</sup> psi	ASTM D790
Flexural Strength	44 Mpa	6300 psi	ASTM D790
Izod Impact (Notched)	48 J/m	0.8 ft-lb/in	ASTM D256
Izod Impact (No-Notch)	544 J/m	10.1 ft-lb/in	ASTM D256
<b>Electrical Properties</b>			
Surface Resistivity	<1 E09 ohm/sq	-	ASTM D257
Volume Resistivity	<1 E09 ohm.cm	-	ASTM D257
<b>Notes</b>			

These data are typical and not to be construed as a specification.

Unless otherwise stated, all data was generated from typical values of injection molded samples.

The information in this Data Sheet are provided for reference only and are based on preliminary data. Final Data Sheet properties will be updated as soon as possible. This information is not a substitute for user testing to determine fitness for use and the user is responsible for ensuring safe and lawful use of the product. No express or implied warranties are provided. No representations are made, and no liability is assumed arising from or relating to the product.

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