

## Product Data Sheet

### OpteSTAT™ PA4,6 DP505x3

**OpteSTAT™** compounds are Ovation Polymers' line of nano-compounds based on carbon nanotubes. Our proprietary dispersion technology debundles and disentangles carbon nanotubes without compromising their integrity. **OpteSTAT™** compounds exhibit good conductivity at minimal nanotube loadings, achieving exceptional cleanliness and physical property retention.

OpteSTAT™ PA4,6 DP505x3 is a nylon 4,6 based carbon nanotube compound.

Typical Properties*	Standard	Unit	Typical Value
<b>Physical</b>			
Specific Gravity	D 792	g/cm <sup>3</sup>	1.18
<b>Mechanical</b>			
Tensile Stress @ yld, 5 mm/min	D 638	MPa.	50
Tensile Strain @ brk, 5 mm/min	D 638	%	2.5
Tensile Modulus, 5 mm/min	D 638	MPa.	2650
Flexural Stress @ 5%Strain, 1.3 mm/min, 50 mm span	D 790	MPa.	100
Flexural Modulus, 1.3 mm/min, 50 mm span	D 790	MPa.	2600
Izod Impact, notched @ 23°C	D 256	ft-lb/in	0.60
<b>Electrical Properties</b>			
Surface Resistivity – on molded plaques	D 257	Ohms/sq	10 <sup>3</sup> -10 <sup>4</sup>

\*All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards. Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance. AGNI is the flame retardant product brand from Ovation polymers.

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