

# OpteSTAT™ PA6,6 DP502

Polyamide 66  
Ovation Polymers Inc.

Message:

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™ PA66 DP502 is a nylon 6,6 based carbon nanotube compound.

General Information			
Features	Clean/High Purity		
	Conductive		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (23°C)	2800	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield, 23°C)	65.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 23°C)	3.1	%	ASTM D638
Flexural Modulus <sup>4</sup> (23°C, 50.0 mm Span)	2900	MPa	ASTM D790
Flexural Strength <sup>5</sup> (5.0% Strain,23°C, 50.0 mm Span)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	51	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>6</sup>	1.0E+6 to 1.0E+7	ohms	ASTM D257
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	On Molded Plaques		

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