

OpteSTAT™ PA4,6 DP505x3

Polyamide 46
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™ PA4,6 DP505x3 is a nylon 4,6 based carbon nanotube compound.

General Information			
Features	Clean/High Purity		
	Conductive		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2650	MPa	ASTM D638
Tensile Strength ² (Yield, 23°C)	50.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	2.5	%	ASTM D638
Flexural Modulus ⁴ (23°C, 50.0 mm Span)	2600	MPa	ASTM D790
Flexural Strength ⁵ (5.0% Strain,23°C, 50.0 mm Span)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶	1.0E+3 to 1.0E+4	ohms	ASTM D257
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	On Molded Plaques		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

