

OpteSTAT™ POM DP493

Acetal (POM) Copolymer

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™ POM DP493 is a POM copolymer based carbon nanotube compound.

General Information			
Features	Clean/High Purity		
	Conductive		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2200	MPa	ASTM D638
Tensile Strength ² (Yield, 23°C)	46.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	22	%	ASTM D638
Flexural Modulus ⁴ (23°C, 50.0 mm Span)	1830	MPa	ASTM D790
Flexural Strength ⁵ (5.0% Strain,23°C, 50.0 mm Span)	64.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶	1.0E+5 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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