

OpteSTAT™ PBT DP492x1

Polybutylene Terephthalate

Ovation Polymers Inc.

Message:

Electrically conductive Polybutadiene Terephthalate injection molding grade.

General Information			
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2690	MPa	ASTM D638
Tensile Strength ² (Break, 23°C)	47.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	8.8	%	ASTM D638
Flexural Modulus ⁴ (23°C, 50.0 mm Span)	3000	MPa	ASTM D790
Flexural Strength ⁵ (Break, 23°C, 50.0 mm Span)	52.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	150	°C	
1.8 MPa, Unannealed	56.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.6E+5	ohms	ASTM D257
Volume Resistivity	2.8E+5	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	190 to 210	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	220 to 240	°C	
Nozzle Temperature	230 to 250	°C	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	50.0 to 60.0	°C	
Back Pressure	20.0 to 40.0	MPa	
Screw Speed	60 to 80	rpm	
NOTE			

1.	50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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Recommended distributors for this material

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