

# RTP ESD C 1500-50D

Thermoplastic Elastomer

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Additive	Carbon Black		
Features	Electrically Conductive		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.2 to 1.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	276	MPa	ASTM D638
Tensile Strength (Yield)	13.8	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	207	MPa	ASTM D790
Flexural Strength (Yield)	6.89	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	No Break		ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	40.6	°C	
1.8 MPa, Unannealed	121	°C	
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Rear Temperature	188 to 216	°C
Middle Temperature	188 to 216	°C
Front Temperature	188 to 216	°C
Mold Temperature	21.1 to 37.8	°C
Injection Pressure	34.5 to 103	MPa

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#### Recommended distributors for this material

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