

# RTP ESD C 2800-90A

Thermoplastic Polyolefin 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	Conductivity		
	Electrostatic discharge protection		
	Workability, good		
	Good chemical resistance		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80 - 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	276	MPa	ASTM D638
Tensile Strength (Yield)	9.65	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
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
Brittleness Temperature	-30.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Additional Information			
Molding Shrinkage, Linear-Flow, ASTM D955, 3.175mm: 8-12mm/mStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D257: <10E3 ohm-cmSurface Resistivity, ASTM D257: <10E6 ohm/sq			

Injection	Nominal Value	Unit
Rear Temperature	177 - 232	°C
Middle Temperature	177 - 232	°C
Front Temperature	177 - 232	°C
Mold Temperature	15.6 - 65.6	°C
Injection Pressure	68.9 - 138	MPa

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#### Recommended distributors for this material

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