

RTP ESD 3282

Ethylene Tetrafluoroethylene Copolymer

RTP Company

Message:

Carbon Fiber - Electrically Conductive

General Information			
Filler / Reinforcement	Carbon Fiber, 15% Filler by Weight		
Features	Electrically Conductive		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength	41.4	MPa	ASTM D638
Tensile Elongation (Yield)	5.0 to 10	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	64.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	430	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+7	ohms	ASTM D257
--	< 1.0E+6	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+4	ohms · cm	ASTM D257
Static Decay	< 2.0	sec	FTMS 101C 4046.1
Primary Additive	15	%	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	293 to 343	°C	
Mold Temperature	65.6 to 149	°C	

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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

