

RTP ESD 4083 TFE 15 SI 2

Polyphthalamide

RTP Company

Message:

Carbon Fiber - PTFE Lubricated - Silicone Lubricated - Electrically Conductive

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
	Silicone lubricant (2%)		
Features	Conductivity		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.020 - 0.10	%	ASTM D955
Moisture Content	0.050	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17900	MPa	ASTM D638
Tensile Strength	203	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	14800	MPa	ASTM D790
Flexural Strength	293	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	550	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+4	ohms	ESD STM11.11
--	< 1.0E+5	ohms	ASTM D257
Volume Resistivity	< 1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.5 mm, ** Values per RTP Company testing.)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	107	°C
Drying Time	4.0 - 6.0	hr
Dew Point	-32	°C
Processing (Melt) Temp	302 - 329	°C
Mold Temperature	135 - 163	°C
Injection Pressure	68.9 - 124	MPa
Injection instructions		
Desiccant Type Dryer Required.		

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