

RTP ESD C 1200 T-85A

Thermoplastic Polyurethane Elastomer (Polyether)

RTP Company

Message:

ESD Protection - Electrically Conductive

General Information			
Features	Conductivity		
	Electrostatic discharge protection		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.0 - 1.5	%	ASTM D955
Moisture Content	0.010	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 10 seconds	90		ASTM D2240
Shaw D	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain, 3.18 mm)	12.4	MPa	ASTM D412
Tensile Strength ³ (Break, 3.20 mm)	15.2	MPa	ASTM D412
Tensile Elongation ⁴ (Break)	> 300	%	ASTM D412
Tear Strength ⁵	96.3	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	No Break		ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+6	ohms	ASTM D257
--	< 1.0E+5	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+3	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	
Drying Time	6.0	hr	
Dew Point	-17.8	°C	
Processing (Melt) Temp	185 - 218	°C	
Mold Temperature	37.8 - 60.0	°C	

Injection Pressure	68.9 - 103	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		
1.	MIL-PRF-81705D, 5kV to 50 V, 12% RH	
2.	Mouth die C, 510mm/min	
3.	C mold, 500 mm/min	
4.	Mouth die C, 500 mm/min	
5.	C mould	

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