

RTP 299 X 141395

Polyamide 66

RTP Company

Message:

ESD Protection - Glass Fiber - Carbon Fiber - Impact Modified - Heat Stabilized - Preliminary Datasheet

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Carbon fiber reinforced material		
Additive	Impact modifier		
	heat stabilizer		
Features	Impact modification		
	Electrostatic discharge protection		
	Thermal Stability		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.40	%	ASTM D955
Moisture Content	0.20	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	207	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	1100	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+5	ohms	ESD STM11.11
--	< 1.0E+6	ohms	ASTM D257
Volume Resistivity	< 1.0E+3	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	79	°C	

Drying Time	4.0	hr
Dew Point	-18	°C
Processing (Melt) Temp	277 - 299	°C
Mold Temperature	66 - 107	°C
Injection Pressure	68.9 - 124	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

1. MIL-PRF-81705D, 5kV to 50 V, 12% RH

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