

# PermaStat® 1200-70A

Thermoplastic Polyurethane 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			
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.3	MPa	ASTM D412
Tensile Elongation (Break)	1500	%	ASTM D412
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.9E+11	ohms	ASTM D257
Volume Resistivity	9.9E+10	ohms·cm	ASTM D257
Additional Information			
Dew Point: 0°FStatic Decay, FTMS101C 4046.1, MIL-PRF-81705D, 5kV to 50 V, 12% RH: <2 secSurface Resistance, ESD S11.11: 1E09 to 9.9E10 ohmSurface Resistivity, ASTM D257: 1E10 to 9.9E11 ohm/sqVolume Resistivity, ASTM D257: 1E09 to 9.9E10 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.030	%	
Processing (Melt) Temp	177 - 216	°C	
Mold Temperature	15.6 - 65.6	°C	
Injection Pressure	48.3 - 82.7	MPa	
Injection instructions			

Desiccant Type Dryer Required.Do not exceed 520 °F (270 °C) melt temperature.

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