

## Elastever® E1170A ES

### Material Description:

Elastever® E1170A ES is a unreinforced Thermoplastic Polyurethane Elastomer(TPU-polyether) product. Characteristics include: Permanently Anti-static, ESD Protection.

General	
Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Features	• Antistatic
	• Ageing Resistant
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.06	g/cm <sup>3</sup>	ASTM D792
Moisture Content	0.03	%	

Hardness	Typical Value	Unit	Test Method
Durometer Hardness (Shore A,10sec)	70		ASTM D2240

Elastomers	Typical Value	Unit	Test Method
Tensile Strength (Yield)	11	MPa	ASTM D412
Tensile Elongation (Yield)	> 1600	%	ASTM D412

Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	1.0E+9 to 9.9E+10	Ohms·cm	ASTM D257
Surface Resistivity	1.0E+9 to 9.9E+10	ohms	ESD STM11.11
	1.0E+10 to 9.9E+11	ohms	ASTM D257
Static Decay <sup>1</sup>	< 2.0	sec	FTMS 101C 4046.1

Processing Information	Typical Value	Unit
Injection Pressure	48.3 to 82.7	MPa
Processing (Melt) Temp	177 to 216	°C
Mold Temperature	16 to 66	°C
Drying Temperature	107	°C
Drying Time	6	hr
Dew Point	-18	°C

NOTES:

<sup>1</sup> MIL-PRF-81705D, 5kV to 50 V, 12% RH

CONTACT:

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