

## Elastever® E1175A EC

### Material Description:

Elastever® E1175A EC is a unreinforced Thermoplastic Polyurethane Elastomer (polyether) (TPU-polyether) product. Characteristics include:ESD Protection.

### General

Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Features	• ESD Protection
	• Cold Resistant
Appearance	• Black
Forms	• Pellets
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Water Absorption (23°C, 24 hr)	0.4	%	ASTM D570
Molding Shrinkage - Flow (3.18 mm)	1 to 1.2	%	ASTM D955

Hardness	Typical Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Strength	2	MPa	ASTM D638
Tensile Elongation(Break)	12	%	ASTM D638

Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	1.00E+03	Ohms·cm	ASTM D257
Surface Resistivity	1.00E+06	ohms	ASTM D257

Processing Information	Typical Value	Unit
Rear Temperature	182 to 210	°C
Middle Temperature	182 to 210	°C
Front Temperature	182 to 210	°C
Mold Temperature	16 to 66	°C
Injection Pressure	68.9 to 103	MPa

### Additional Information

Tensile Elongation, ASTM D638: >10%  
 Volume Resistivity, ASTM D257: <1.0E3 ohm-cm  
 Surface Resistivity, ASTM D257: <1.0E6 ohm/sq  
 Static Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

### CONTACT:

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