



# Static Control Packaging and Transportation Products

## Hinged Containers

3M™ Hinged Containers are made from injected-molded plastic, and are noncorrosive and lightweight. The containers feature molded pin hinges that provide better security and reliability than traditional snap hinges.

Static-sensitive devices can be transported in these containers which provide protection from direct static discharges as well as from static fields from charged personnel and materials.



Hinged Containers

3M™ Containers are injection-molded in a variety of shapes and sizes. They are ideal for static-safe storage, kitting, and in-process handling and transporting of static-sensitive assemblies and devices.



Round Containers

Product No.	Length, in. (cm)	Width, in. (cm)	Depth, in. (cm)
4021	2.88 (7,3)	1.19 (3,0)	0.5 (1,3)
4022	3.88 (9,8)	1.94 (4,9)	0.5 (1,3)
4023	2.56 (6,5)	3.5 (8,9)	1.75 (4,4)
4024	7 (17,8)	3.5 (8,9)	1 (2,5)
4025	7 (17,8)	5 (12,3)	0.5 (1,3)

All dimensions are referenced from the inside bottom of the container and are nominal dimensions.

**Note:** Shelf life of products made with conductive resin is five years. Variations in storage conditions such as temperature fluctuation, exposure to sunlight or high humidity may reduce the shelf life.

Product No.	Diameter, in. (cm)	Height, in. (cm)
4011	2.38 (6,0)	0.88 (2,2)
4012	3.38 (8,6)	0.88 (2,2)
4013	1.81 (4,6)	4 (10,2)
4014	4.06 (10,3)	2.34 (6,0)
4015	3.81 (9,7)	4.69 (11,9)

All dimensions are referenced from the inside bottom of the container and are nominal dimensions.

## Container Properties

Typical Property	Test Method	4540 EVA Copolymer Compound / 1801 Sheet Stock Typical Value*	4520 Polypropylene Compound / 1840 Sheet Stock Typical Value**
Hardness	ASTM D2240	58 - 62 Shore D	67 - 71 Shore D
Heat Deflection Temp.	ASTM D648	38° - 43°C @ 264 PSI	100°C @ 66 PSI; 50°C @ 264 PSI
Water Absorption	ASTM 570	0.1 - 0.2%	0.1 - 0.2%
Vicat Softening	ASTM D1525	88° - 92°C	148°C
Flammability	ASTM D635	4.5 - 5.5 cm/min.	2 cm/min.
Impact Resistance	ASTM D256	2.9 - 3.7 ft.-lbs./in. @ 72°F	8 - 10 ft.-lbs./in. @ 72°F
Notched Izod		0.6 - 1.3 ft.-lbs./in. @ 25°F	7 - 9 ft.-lbs./in. @ 25°F
Maximum Temp. Exposure	3M	150°F	180°F
Tensile Strength	ASTM D638	1700 - 2000 PSI	2800 - 3000 PSI
Flex Modulus	ASTM D790	40,000 - 50,000 PSI	130,000 - 150,000 PSI
Mold Shrinkage	ASTM 955	15 - 20 mil/in.	10 - 20 mil/in.
Electrical Conductance			
Volume Conductive	ASTM D991	< 500 ohm-cm	< 500 ohm-cm
Chemical Resistance	ASTM D543		
Alcohol		Resistant	Resistant
Aromatic Hydrocarbons		Severe Attack	Severe Attack
Aliphatic Hydrocarbons		Moderate Attack	Moderate Attack
Concentrated Acids		Slight Attack	Slight Attack
Concentrated Alkalines		Slight Attack	Slight Attack
Dilute Acids		Resistant	Resistant
Dilute Alkalines		Resistant	Resistant
Kerosene		Severe Attack	Severe Attack
Ketones (Acetone)		Moderate Attack	Moderate Attack
Mineral Oil		Slight Attack	Slight Attack
Oil and Gasoline		Moderate Attack	Moderate Attack

\*EVA copolymer technical data for 4540 Resin; 1801; 4251-4254A Snap on Covers.

\*\*Polypropylene technical data for 4520 Resin; 1840; 4011-4016 Round Containers and Lids; 4021-4025 Hinged Containers; 5701 Single Device Carriers; and 8520-8523 Single Card Carriers.

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