

7000 Specialty Series

DATASHEET 7700 Mobile Electronic

Product description

Olympic 7700 Mobile Electronic is pitch black and specifically designed for bonding a wide range of high, medium and low surface energy substrates in the electronic industry. It is typically used in application such as lens bonding, LCM attachment and bezel bonding.

The unique acrylic chemistry ensures high bond strength and excellent holding power. The 7700 series shock absorbing properties are designed to meet the industry drop-test requirements and its deep black appearance gives it strong light blocking properties.

Application techniques

To achieve a proper bond it is important to consider the following:

- ✓ Olympic 7700 Mobile Electronic is a pressure sensitive adhesive. Firm application pressure improves the bonding strength.
- ✓ Olympic 7700 Mobile Electronic adheres to surfaces immediately and the bond strength further improves over time. It reaches maximum bond strength after 72 hours (at room temperature).
- ✓ The time needed to reach maximum bond strength can be reduced significantly by increasing the overall temperature of the bonded surfaces.
- ✓ The bonding surfaces must be clean and dry to achieve full adhesion. Surfaces must be cleaned by using solvents such as isopropyl alcohol, rubbing alcohol, or heptane.
- ✓ The ideal tape application temperature range is 20 °C to 35 °C. Initial tape application to surfaces at temperatures below 10 °C is not recommended. However, once properly applied, low temperature holding is generally satisfactory.

General physical characteristics

The table below lists the standard physical properties of a roll acrylic foam tape from the 7700 series as it is typically produced. Other thicknesses, adhesive colors (red, blue), types of release liner (e.g. siliconized paper) and types of cores (e.g. paper) are all possible on customer request.

Series	Adhesive		Release liner			Core		
	Color	Adhesive type	Material	Thickness (mm)	Color	Size (mm)	Material	
7701	■	Soft Acrylic	BOPET (lower)	PE (upper)	0.18	□ T	76.20	Plastic
7702	■	Soft Acrylic	BOPET (lower)	PE (upper)	0.25	□	76.20	Plastic

■ Black □ T Transparent □ White

Roll sizes

The 7700 series is typically produced in several different roll sizes. Both smaller and larger rolls are possible.

Series	Tape Thickness	Standard Length (meter)	Maximum width (mm)
7701	0.18	66	900
7702	0.25	66	900

Typical performance characteristics

The adhesive properties of the 7700 series can be characterized by a variety of methods. The typical values for the most commonly used mechanical and adhesive properties are listed in the table below.

Series	Color	Thickness (mm)	Light transmission	90° Peel Adhesion (N/cm)	Static shear (grams)		Maximum Temperature (°C)	
					At 20 °C	At 90 °C	Short term	Long term
7701	□ T	0.18	930	22	1000	500	125 °C	100 °C
7702	□ T	0.25	930	28	1000	500	125 °C	100 °C

□ T Transparent



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Atlas Adhesive Tape



90° peel strength according to ASTM D3330. Stainless steel substrate, aluminum backing. 72-hour dwell time at room temperature. Listed value is average value force to remove tape at room temperature.



Static shear according to ASTM D3654. Stainless steel substrates, 0.5 sq.in. (3.23 sq.cm.), 24-hour dwell time at room temperature. The tape will hold its listed weight for 10,000 minutes (approximately seven days) at the listed temperature.

Long term maximum temperature is the temperature at which the tape will hold 250 grams under static load.

Short term maximum temperature is the temperature to which the tape can be exposed for four hours with a static load of 100 grams.

Storage and shelf life

Shelf life is 24 months from the date of manufacture when stored in its original casing between 18 ° - and 22 °C at 50% relative humidity.

Additional information

The technical information, recommendations, and other statements contained in this document are based on Olympic's tests or experience. Many factors beyond Olympic's control and uniquely within user's knowledge and control can affect the use and performance of an Olympic product in a particular application. Given the variety of factors that can affect the use and performance of an Olympic product, the user is solely responsible for evaluating the Olympic product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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