

Technical Data Sheet

5412 Gray LSE Acrylic Foam Tape
5412 White LSE Acrylic Foam Tape

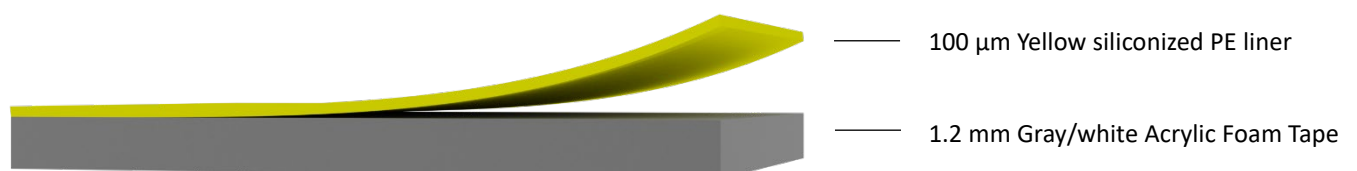
Product Description

CCL Olympic 5412 is a 1.2 mm thick modified acrylic foam tape which is specifically designed for excellent adhesion to low- and medium surface energy substrates. This tape is unique in that it can be applied directly to materials like PP and automotive paint, without the need for a pre-treatment thereby saving both time and expenses associated with the application of adhesion promoters.

Product Features

- Ultra-strong bond to PP
- Primerless adhesion
- Superb bonding to automotive paints
- 1.2 mm thick
- Excellent temperature resistance
- UV-resistant
- Slitted on request

Product Construction



Technical Information Note: The technical data below cannot be used for specification purposes but should be considered representative or typical only.

Available sizes

| Property | Value | Additional information |
|----------------------|---------|-------------------------|
| Standard roll length | 33 m. | Other lengths available |
| Effective roll width | 900 mm. | |
| Core size | 3 inch. | Hips oversized |

Typical Product Properties & Test Conditions

| Property | Value | Method | Additional information |
|----------------------|------------------------|-----------------|------------------------|
| Total tape thickness | 1.2 mm | ASTM D3652 | |
| Thickness tolerance | 10% | | |
| Density | 0.60 g/cm ³ | Internal method | |
| Adhesive type | Conformable Acrylic | | |
| Color | Gray or white | | |
| Liner type | Siliconized PE | | |
| Liner thickness | 100µm | | |
| Color liner | Yellow | | |

Typical Performance Characteristics

| Property | Value | Method | Additional information |
|--------------------------------|---------|-----------------|---------------------------------------|
| 90° peel adhesion | 35 N/cm | ASTM D3330 | Stainless Steel 20 min. dwell time |
| 90° peel adhesion | 25 N/cm | ASTM D3330 | Polypropylene 20 min. dwell time |
| 90° peel adhesion | 60 N/cm | ASTM D3330 | Stainless steel 72 hrs. dwell time |
| 90° peel adhesion | 30 N/cm | ASTM D3330 | Polypropylene 72 hrs. dwell time |
| Static shear (20°C) | 1500 G | ASTM D3654 | |
| Static shear (90°C) | 300 G | ASTM D3654 | |
| Dynamic shear | 700 kPa | ASTM D1002 | Shear rate: 12.7 mm/min |
| Minimum long term temperature | - 40 °C | Internal Method | |
| Maximum long term temperature | 150 °C | Internal Method | |
| Maximum short term temperature | 230 °C | Internal Method | |

Additional information test method

- 90° peel adhesion according to ASTM D3330. Stainless steel substrate, aluminum backing. 72-hour dwell time at room temperature. Listed value is average value force to remove adhesive 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 adhesive 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 adhesive will hold 250 grams under static load (10,000 minutes).
- Short term maximum temperature is the temperature to which the adhesive can be exposed for four hours with a static load of 100 grams.

Product Applications

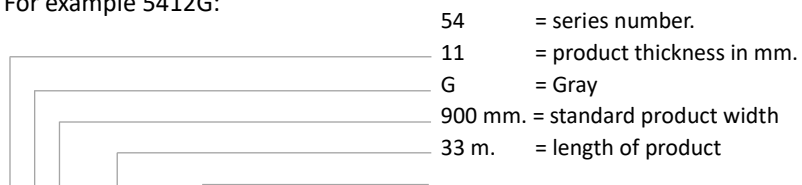
5412 is suitable for a range of applications including:

- Automotive interior and exterior trim attachment
- Outdoor signage and window grilles
- White goods
- Mobile electronics bezel bonding
- Component mounting

Product code structure

The structure of our product code is as follows:

For example 5412G:



5412G 900mm x 33m

Custom Solutions

We can modify all our adhesive and mechanical properties for various solutions, such as peel, adhesion, shear, softness, impact resistance, tack, color, rigidity, flexibility, temperature resistance and even smell to create the solution that meets your exact specifications.

Additional Product Information

| | |
|---------------------------------|---|
| Product Application | The application surface should be clean and dry. In order to optimize performance, surface temperatures should be around room temperature. |
| Storage Conditions & Shelf Life | 5412 Olympic tapes must be stored between 10°C to 30°C, and 0-95% relative humidity. The optimum storage conditions are 22°C and 50% relative humidity and in original sealed packaging. If stored under recommended conditions, then this material will retain its specified performance criteria for 2 years. Performance of tapes is not projected to change even after shelf life expires, but it is recommended that the tapes be used within two years. |
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| RoHS | RoHS (Restriction of Hazardous Substances). Olympic hereby confirms that our products from series LBL, 1000, 3000, 5000, 7000, 8000 and 9000 comply with EU Directive 2011/65/EU (RoHS recast/RoHS 2), as amended by EU 2015/863. Official statement available on request. |
| REACH | CCL Olympic hereby confirms that in case of products from the series LBL, 1000, 3000, 5000, 7000, 8000 and 9000 we always observe the prescriptions of REACH (1907/2006/EC) regulation and the product(s) are fully compliant with the relevant regulation. Official statement available on request. |
| PFAS | At CCL Olympic, we want to reassure our customers that our products are entirely free of PFAS (Per- and Polyfluoroalkyl Substances), underscoring our commitment to product safety and environmental responsibility. Official statement available on request. |
| ISO | CCL Olympic is ISO9001 and ISO14001 certified. |

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