

## SMS HT700 series

### DESCRIPTION

Pressure sensitive polymeric vinyl suitable for flat and contoured surfaces.  
The film is suitable for wet and dry applications.

Colors: 15 gloss

### TECNICAL INFORMATION

<b>Film</b>	<b>Industrial</b> Calendered P.V.C.
<b>Thickness film (without adhesive)</b>	70 +/- 5% micron
<b>Liner</b>	Clay coated paper 1 side siliconised
<b>Release</b>	70 +/- 20 cN/20 mm

### Adhesive Description

- SMS High-Strength Acrylic Adhesive provides very high bond strength to most surfaces.
- Excellent bond to low surface energy plastics such as polypropylene and powder coatings.
- Excellent adhesion to lightly oiled surfaces typical of machine parts.
- Thickness of 4 mils (100 microns) for use on smooth, and textured surfaces.
- Extremely smooth adhesive for excellent graphic appearances.

### Typical Physical Properties and Performance Characteristics

### Typical Adhesion Properties

**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

Peel Adhesion - ounces/inch (Newtons/100 mm) ASTM D3330, modified 90° peel, 2 mil aluminum backing.

### Typical Adhesion Chart

	Tape	15 Minute Room Temperature		72 Hour Room Temperature	
		Oz./In.	N/100 mm	Oz./In.	N/100 mm
Stainless Steel	HT700	71	78	75	82
ABS	HT700	70	77	79	86
Polypropylene	HT700	69	75	74	81

**Bestel makkelijk en snel op [www.rebo.nl](http://www.rebo.nl)**

Op alle verkopen van onze producten zijn onze algemene leverings- en Betalingsvoorwaarden van toepassing, welke gedeponereerd zijn bij de kamer van koophandel Gooi- en Eemland onder nummer

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**Bond Build-up:** The bond strength of High-Strength Acrylic Adhesive increases as a function of time and temperature, and has very high initial adhesion.

**Humidity Resistance:** High humidity has a minimal effect on adhesive performance. No significant reduction in bond strength is observed after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

**U.V. Resistance:** When properly applied, adhesive bond is not adversely affected by exposure.

**Water Resistance:** Immersion in water has no appreciable effect on the bond strength. After 100 hours at room temperature, the high bond strength is maintained.

**Temperature Cycling Resistance:** High bond strength is maintained after cycling four times through the following conditions:

- 4 hours at 158°F (70°C)
- 4 hours at -20°F (-29°C)
- 4 hours at 73°F (22°C)

**Chemical Resistance:** When properly applied, adhesive bond will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

**Temperature Resistance:** 3M high-strength acrylic adhesive 300LSE is usable for short periods (minutes, hours) at room temperatures up to 300°F (148°C) and for intermittent longer periods of time (days, weeks) up to 200°F (93°C).

**Lower Service Temperature Limit:** -40°F (-40°C).

**Shelf Life:** Product retains its performance properties for two years from date of manufacture if properly stored at room temperature conditions of 72°F (22°C) and 50% relative humidity. Storage in plastic bag is recommended.

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### Application Techniques:

For maximum bond strength, the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol. Carefully read and follow manufacturer's precautions and directions for use when using cleaning solvents. This cleaning recommendation may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.

Bond strength can also be improved with firm application pressure and moderate heat, from 100°F (38°C) to 130°F (54°C) which causes the adhesive to develop improved contact with the bonding surface.

Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended for most pressure-sensitive adhesives because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

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<b>Life *</b>	8 years black and white, 7 years gloss colors (When properly processed and under vertical condition)
<b>Application temperature</b>	Suggested between 10 and 28 °C
<b>Temperature resistance</b>	From -40°C to +80°C adhered to steel no variation
<b>Seawater resistance (Istr. op. N° 14)*</b>	Adhered to steel no variation after 100 h at 20°C (Istr. Op. 14)
<b>Shelf life</b>	2 years normal condition (20°C - 50% R.H.) suspended horizontally or vertically upright position in polytene bag.

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\* References made to outdoor durability is based on middle european conditions. Exposure to conditions of high temperature as in southern climatic regions or in high polluted areas or in high altitudes or high UV conditions will reduce the performance levels. The values and data given are based on tests we believe to be reliable, and are typical values which are intended only as a source of information and do not constitute a warranty or a guarantee. The minimum life and seawater values given only refer to the film. Purchasers must independently determine, before use, the suitability of this material for the specific purpose and under their own operating conditions. No salesman, representative or agent has authority to give any guarantee, warranty or make any representation contrary to these guidelines. . guarantee, warranty or make any representation contrary to these guidelines .

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