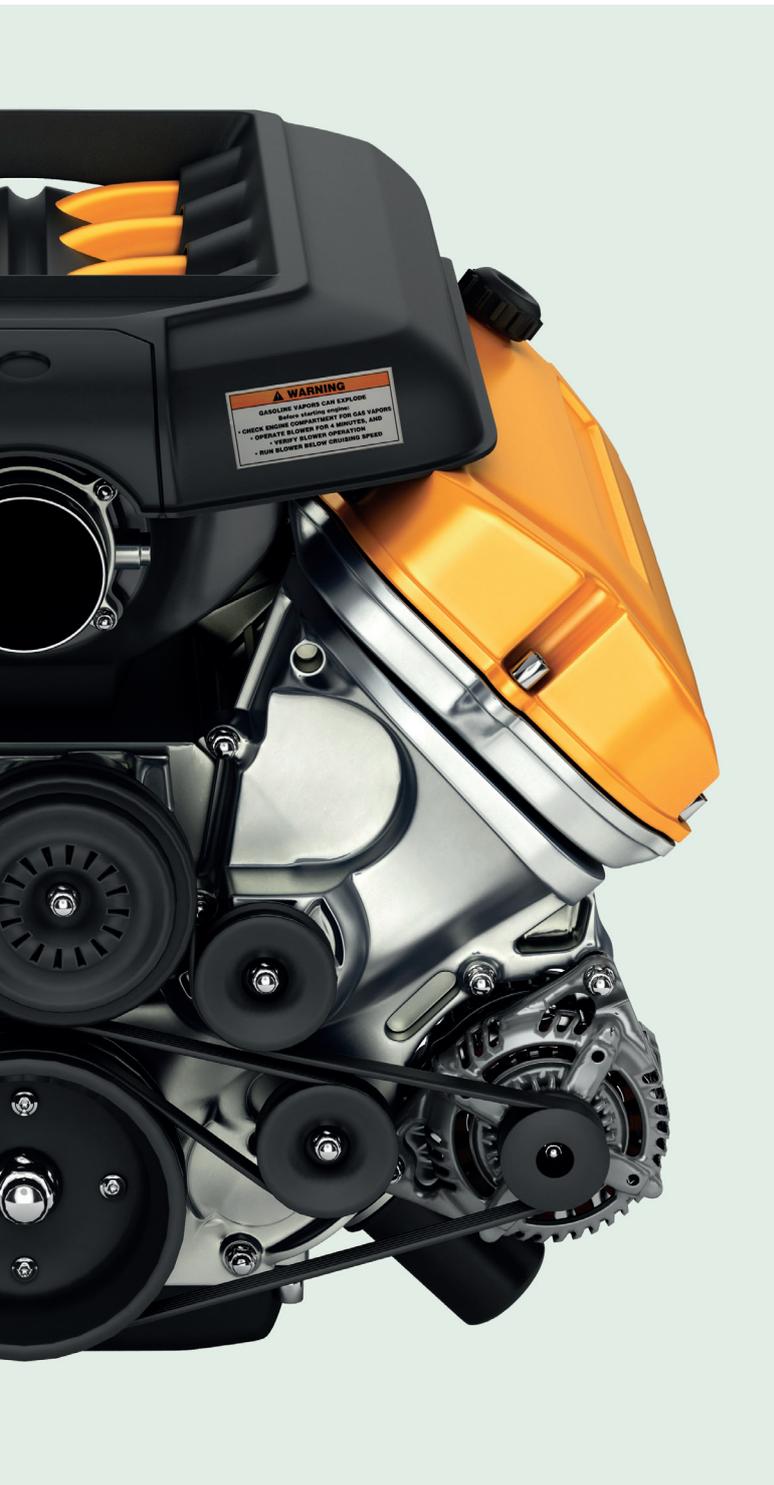


Innovative adhesive technology for durable goods labelling

Solving the low surface-energy labelling challenge



Rubber Hybridized Acrylic adhesive portfolio featuring S8049, S8039 and S8029 adhesives

Automotive and other manufacturers are increasingly using low surface energy (LSE) plastics, thanks to their performance, low weight and attractive cost. Such LSE materials offer smooth, modern finishes, and lightweight benefits automotive components such as treated metal bumpers, body trim and interior panels are often now being made with lighter LSE plastics.

The durable and easy-to-clean finishes offered by these materials are also ideal for medical equipment, household appliances and a range of industrial applications.

Unfortunately, conventional adhesives designed to provide long-term stability do not bond easily to LSE materials. A simple way to understand this is to consider a waxed car, where water forms beads instead of spreading out across the surface. LSE plastics have a similar effect on a conventional label adhesive, making adhesive adhesion to the labelled substrate difficult. The lower the surface energy, the weaker the bond.

Strong and durable - RHA technology

Today's manufacturers need labels that not only adhere well but also withstand the harsh chemicals and high temperatures common in automotive and industrial applications. Rubber adhesives are tacky enough, but lack the necessary chemical and temperature resistance. Acrylic adhesives provide chemical and temperature resistance, but are not tacky enough.

Avery Dennison offers an innovative adhesive technology to address this challenge, enabling the creation of labels that retain crucial information on products or personal safety, and which stay in place and remain legible over a product's lifetime.

Product information

Code Product description

AJ059	Transfer PET white TOP - S8049 - BG42wh BSS
AL854	Transfer PET matt white - S8049 - BG42wh BSS
AL851	Transfer PET 75 matt white - S8049 - BG42wh BSS
AL852	Transfer PET matt chrome TOP - S8049 - BG42wh BSS
AJ060	Transfer PET matt silver - S8049 - BG42wh BSS
AL850	Transfer PET 75 matt silver - S8049 - BG42wh BSS
BN515	Transfer PET trans TOP - S8049 - BG42wh BSS
AO530	TT BG50wh - S8049 - BG50wh BSS
BN947	Transfer PET white TOP - S8029 - BG45wh
BN949	Transfer PET matt white - S8029 - BG45wh
BH781	Transfer PET matt chrome TOP - S8029 - BG45wh
BN950	Transfer PET matt silver - S8029 - BG45wh

The RHA adhesives are available with a coat weight of up to 45 g/m²:

- ▶ **S8049:** coatweight 45 g/m². White and silver polyester films and also a transfer tape are available as stock products, with small minimum order quantities.
- ▶ **S8029:** coatweight 27 g/m². White and silver polyester films are available as stock products, with small minimum order quantities.
- ▶ **S8039:** coatweight 16 - 40 g/m². Different facestocks and liners can be chosen via the Avery Dennison Mix & Match™ service.





Conversion recommendations

The innovative formulation of Avery Dennison RHA adhesive ensures less adhesive ooze than alternative products, but the high adhesive coat weight requires special care during die cutting in order to minimise bleed. Recommended precautions include using sharpened dies (contact your tool supplier with sample material); setting up the correct die cutting depth; using rounded corners; maintaining minimum winding tension within shorter rolls; avoiding unnecessary heat exposure during conversion and storage; and ensuring immediate stripping after die cutting.

Benefits

RHA technology combines rubber and acrylic performance to achieve the best of both worlds:

S8049 / S8039 for exceptional performance on difficult-to-label surfaces

- ▶ Copes with rough, slightly oily or very low surface energy substrates (including PE, PP and lacquers)
- ▶ Provides high peel adhesion on the most difficult substrates
- ▶ High chemical, temperature, UV and ageing resistance
- ▶ Up to 20% higher conversion speed than common alternative, with less cleaning on press

S8029 for many applications requiring a high tack adhesive and a long life time

- ▶ Suits a majority of durables applications
- ▶ Available with a wide range of facestocks

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