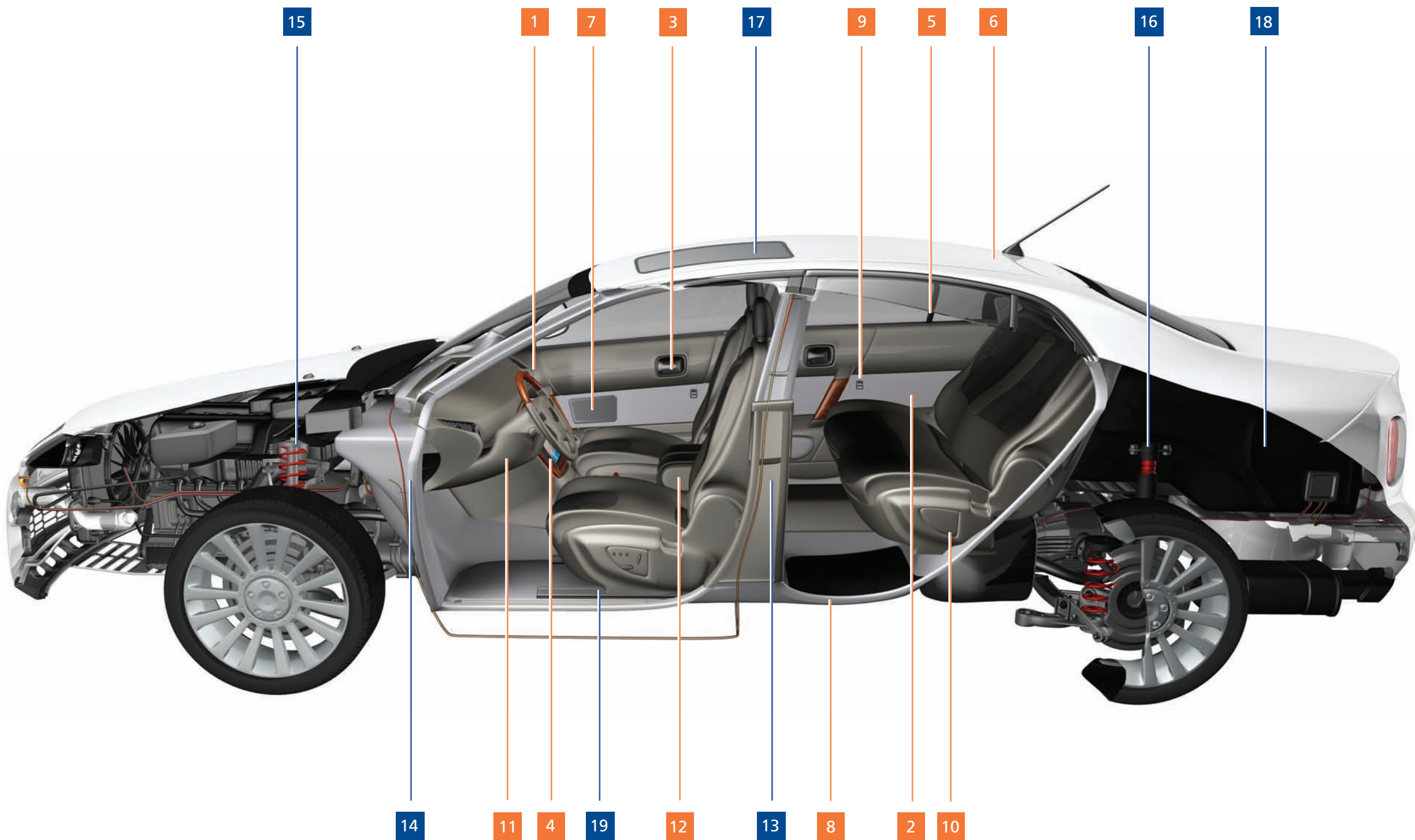




CROWN[™]
PLASTICS





DuraSurf™ BSR

- 1 Glove box and map pockets
- 2 Door side controls
- 3 Door handles
- 4 Navigation/entertainment center
- 5 Window channel and extrusions
- 6 Headliners
- 7 Speaker housings and grills
- 8 Door channel
- 9 Door belt molding
- 10 Interior trim components
- 11 Below steering column
- 12 Center console/coin trays/arm rest compartment

DuraSurf™ ETA

- 13 ABC pillars/garnish moldings
- 14 Front pillars
- 15 Struts
- 16 Shock mounts
- 17 Sunroof seals and sunroof shades
- 18 Trunk compartments and interior
- 19 Seat channels

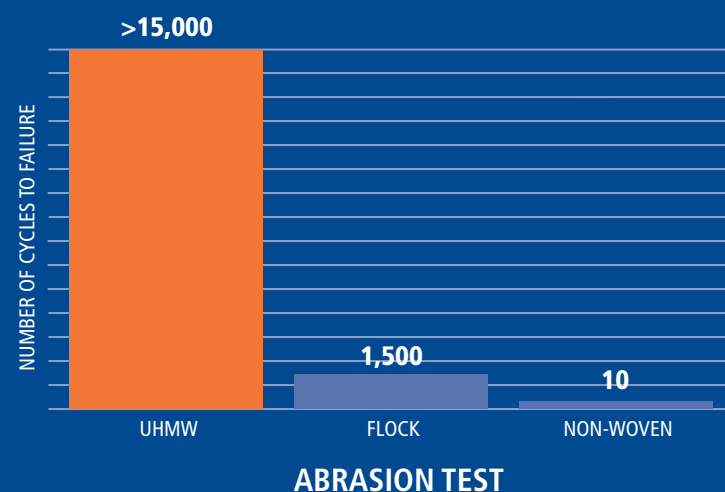
PERFORMANCE. VALUE. SERVICE

Crown Plastics is the world leader in manufacturing thin gauge continuous roll UHMW-PE (Ultra High Molecular Weight-Polyethylene).

Our DuraSurf™ line of UHMW products are an excellent solution where materials rub against each other and create noise or wear during movement that might compromise the function and/or life of the materials.

Crown Plastics DuraSurf™ UHMW offers these advantages:

- The highest abrasion resistance of any thermoplastic polymer (5 times greater than stainless steel)
- Outstanding impact strength even at very low temperatures
- An excellent sliding material due to the low coefficient of friction
- Self-lubricating (non-caking and sticking)
- Good chemical and stress cracking resistance
- Easily machined
- Sound dampening properties



DuraSurf™ UHMW offers the greatest value/performance characteristics over the life/warranty of the vehicle when compared to products of lesser quality and durability.

DuraSurf™ UHMW is tested to all of the major automotive specifications including GM9985804, GM6419M, Ford ESB-M3G123-B and Chrysler MS-CH612.

It is the policy of Crown Plastics Company to provide material and service that meet or exceed the Quality Standards throughout the customer chain.

Crown Plastics prides itself in delivering the highest standard of quality service through:

- Attention to Detail
- Responsiveness
- Follow Through

We manufacture UHMW-PE...
but our product is SERVICE!

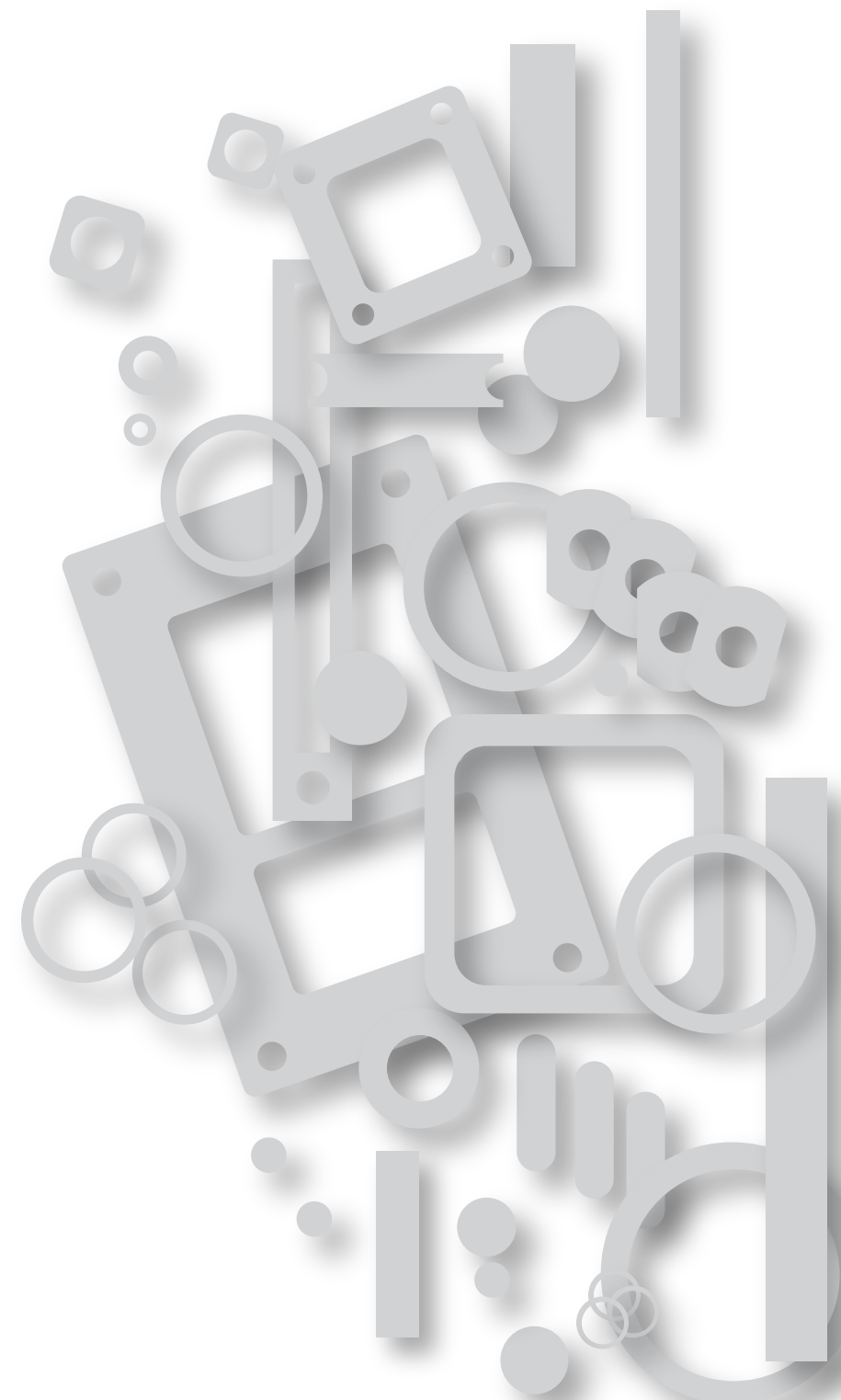
Crown Plastics' DuraSurf™ line of UHMW polyethylene products are designed to eliminate problems associated with Buzz, Squeak, and Rattle (BSR), and Noise, Vibration and Harshness (NVH). These problems are normally attributed to wind leakage, movement between adjoining panels, and gaps and holes in panels. DuraSurf BSR thin tapes and thicker gauge DuraSurf ETA help eliminate wear and noise between dissimilar materials, allows movement in adjoining parts, protect painted surfaces, cover openings in frames and panels, reduce marring and help extend vehicle life and enhance the quality image of the vehicle manufacturer. DuraSurf BSR and DuraSurf ETA are easily die-cuttable and can fit into existing designs.

BSR THIN TAPES

Crown Plastics DuraSurf™ BSR tapes are specifically designed to meet the demands of the transportation industry to help eliminate Buzz, Squeak and Rattle (BSR) and Noise, Vibration, and Harshness (NVH) issues with vehicle interiors. DuraSurf BSR tapes are offered in .003", .005", .010", .015", and .020" and are available in specified roll widths from ¼" up to 24" and continuous lengths. Die-cuts shapes are available as specified.

ETA THICKER GAUGES

Crown Plastics DuraSurf™ ETA (Easy-To-Appl) wear strips and adhesive backed tapes offer excellent abrasion resistance, low coefficient of friction, high impact resistance and high performance properties. Typical applications include spacers, wear strips, dust covers, and gaskets. DuraSurf ETA wear strips and tapes are offered in thicknesses up to 1/4" and are available in specified roll widths from ¼" up to 24" and continuous lengths. Die-cuts shapes are available as specified.



Crown Plastics stocks a wide variety of pressure sensitive adhesives to accommodate nearly every imaginable application. Our expertise in surface preparation guarantees outstanding bonding to different substrates.

Crown's pressure sensitive adhesive systems include: rubber and acrylic adhesives for UHMW.

ADHESIVE PROPERTIES

Adhesive Number	8345	1150	1123	1126	8346	1905 HPA	1191 UHA
Peel Adhesion	180° Peel	180° Peel	180° Peel	180° Peel	108° Peel	90° Peel	180° Peel
U.S. Pounds/in. Width	179	61	125	134	120	85	216
Metric N/m	1961	665	1366	1471	1313	928	2359
Loop Tack Stainless Steel							
U.S. Pounds/in. Width	299	80	117	152	120	123	438
Metric N/m	3274	876	1278	1663	1313	1348	4794
Static Shear Area	1" (6.5cm2)	1" (6.5cm2)	1" (6.5cm2)	1" (6.5cm2)	1" (1.6cm2)	1" (6.5cm2)	1" (6.5cm2)
Load							
U.S. lbs	5.5	5.5	5.5	5.5	2.2	2.2	10
Metric kg	2.5	2.5	2.5	2.5	1.0	1.0	4.5
Minutes to Failure	>10,000	>10,000	>400	>400	>150	>10,000	>10,000

ADHESIVE DESCRIPTION

8345	5 mil rubber based adhesive designed for applications requiring high tack and adhesion and excellent shear strength. Specially formulated with a 1 mil. polyester carrier to provide excellent die-cutting and adhesion to low surface energy substrates. Crown's standard adhesive. Operating Temp - 120°F (48°C) Continuous / 175°F (79°C) Intermittent
1150	2 mil general purpose acrylic transfer with excellent temp, UV, and solvent resistance. Good adhesion to bond to a wide variety of substrates. Excellent die-cutting characteristics. Operating Temp - 250°F (121°C) Continuous / 350°F (177°C) Intermittent
1123	3 mil high tack acrylic transfer with excellent initial tack and adhesion to a wide variety of substrates. A densified kraft release liner for superior die-cutting properties. Operating Temp - 200°F (93°C) Continuous / 250°F (121°C) Intermittent
1126	5 mil high tack acrylic transfer with excellent initial tack and bondability to a wide variety of substrates, especially textured substrates. A heavy adhesive mass and a densified kraft release liner for superior die-cutting properties. Operating Temp - 200°F (93°C) Continuous / 250°F (121°C) Intermittent
8346	5 mil double coated acrylic with excellent adhesion to low surface energy substrates including foams. Good shear strength and temperature range. Operating Temp - 200°F (93°C) Continuous / 250°F (121°C) Intermittent
1905 HPA	5 mil acrylic with excellent adhesion for applications requiring good holding power under stress and load and environmental resistance. Chemical, solvent, heat, humidity, and UV resistance. Thick adhesive mass allows for improved bonding and gap fill. Operating Temp - 400°F (204°C) Continuous / 450°F (232°C) Intermittent
1191 UHA	Very heavy 11 mil solid mass of hard rubber adhesive modified for higher temperature resistance while providing excellent adhesion to low surface energy substrates and textured substrates. Operating Temp - 225°F (107°C) Continuous / 275°F (135°C) Intermittent

All Avery adhesives have a minimum application temperature of 50°F (10°C)

Storage and Shelf Life - One year when stored at 70°F (21°C) / 50% Relative Humidity out of direct sunlight.

Surface Preparation - It is essential, as with all pressure sensitive tapes, that the surface to which the tape is applied be clean, dry and free of grease and oil.



ADVANCED THERMOPLASTIC SOLUTIONS

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