

# DuraSurf™

by CROWN PLASTICS

The incredible durability and versatility of **DuraSurf™** UHMW-PE makes it a favorite among engineers and designers in nearly every industry worldwide. UHMW-PE's long molecular chain gives it a host of exceptional attributes: high abrasion resistance, low coefficient of friction and unparalleled impact resistance, even in cryogenic environments.

## DuraSurf™ ETA

by CROWN PLASTICS



Crown Plastics standard line of **Easy-To-Apply** wear strips and adhesive backed tapes. Each tape product offers the excellent abrasion resistance, low coefficient of friction, high impact strength and high performance people have come to expect from UHMW. By providing this exceptional material with an adhesive backing, installation time and costs are significantly reduced. No need for bolts or fasteners, no need to countersink.

**DuraSurf™ ETA** reduces scrap by 75%. When a standard 1/4" thick sheet of UHMW is installed using the traditional mechanical fastening method, 3/16" of the material is lost to the bolt head. This leaves only a 1/16" usable wear surface. You can achieve the same result with a 1/16" **DuraSurf™ ETA** tape product and eliminate 80% of the time and cost associated with traditional installation methods. Crown Plastics offers a wide range of both rubber and acrylic based adhesive systems to meet virtually any application requirement.

## DuraSurf™ STS

by CROWN PLASTICS



**DuraSurf™ STS** is a revolutionary product in that it not only possesses a **Silicone Treated Surface**, but is also available with an adhesive backing for easy installation. The very low coefficient of friction provides a lubricated surface that is virtually maintenance free.

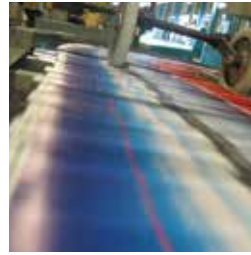
**DuraSurf™ STS** is an ideal solution for many applications in the package handling industry: chute linings, slider beds, slides, spirals and numerous other areas where packages can get lodged or damaged.

**DuraSurf™ STS** also helps reduce jamming and keeps packages moving smoothly to their ultimate destination. **DuraSurf™ STS** is static dissipative to prevent static shocks and potential damage to bar coding systems.

**DuraSurf™ STS** is uniquely available with an adhesive backing to provide easy installation and eliminate the need for mechanical fastening. Die cutting is also available for washers, bushings, wear pads and anti-friction surfaces.

## DuraSurf™ ASC-UV

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Crown Plastics **DuraSurf™ ASC-UV** is an anti-static/conductive UV-stable UHMW-PE blend. Possessing the highest level of conductivity in the industry (with a surface resistivity of  $10^2 - 10^3$ ), **DuraSurf™ ASC-UV** protects against static build up that occurs in powder conveying and dust collection and provides discharge protection in electronics, appliances, mail sorting equipment, copiers, printers and computers.

Specifically designed to meet the rigors and harsh environments of the outdoors, **DuraSurf™ ASC-UV** has the highest UV stability in the industry, lasting up to 10 times longer in the outdoors than standard UHMW products.

**DuraSurf™ ASC-UV** is available in wear strips or with adhesive backing. A wide range of adhesives is available to meet virtually any application.

## DuraSurf™ BSR

by CROWN PLASTICS



Crown Plastics **DuraSurf™ BSR** tapes are specifically designed to meet the demands of the automotive industry to help eliminate Buzz, Squeak and Rattle issues with auto interiors. **DuraSurf™ BSR** tapes eliminate wear and noise between dissimilar materials, reduce warranty issues, allow movement in adjoining parts, protect painted surfaces,

reduce marring and extend vehicle life. **DuraSurf™ BSR** tapes are easily die-cut to fit within existing designs.

**DuraSurf™ BSR** tapes are tested to major automotive specifications including GM9985804, GM6419M, Ford ESB-M3G123-B, Chrysler MS-CH612 and GMW 16879.

## ADHESIVE PROPERTIES - Adhesive liner performance on stainless steel

Adhesive Number	FT 8345 SF	FT 1150	FT 1123	FT 1126	FT 8346	HPA 1905	UHA 1198
<b>Peel Adhesion / Degree</b>	180° Peel	180° Peel	180° Peel	180° Peel	180° Peel	180° Peel	180° Peel
U.S. Oz / In. Width	179	61	125	134	120	59	159
Metric N/m	1961	665	1366	1471	1313	648	1737
<b>Loop Tack / Initial Time</b>	20" Min.	12" Min.	20" Min.	20" Min.	20" Min.	20" Min.	20" Min.
U.S. Pounds / In. Width	306	80	117	152	120	123	352
Metric N/m	3344	876	1278	1663	1313	4348	3852
<b>Static Shear / Area</b>	1" (6.5cm <sup>2</sup> )	1" (6.5cm <sup>2</sup> )	1" (6.5cm <sup>2</sup> )	1" (6.5cm <sup>2</sup> )	1" (6.5cm <sup>2</sup> )	1" (6.5cm <sup>2</sup> )	1" (6.5cm <sup>2</sup> )
Load U.S. lbs./kg	5.5 / 2.5	5.5 / 2.5	5.5 / 2.5	2.2 / 1	2.2 / 1	2.2 / 1	10 / 4.5
Minutes to Failure	>10,000	>10,000	>400	>400	>150	>10,000	>10,000

## ADHESIVE DESCRIPTION

<b>FT 8345 SF</b>	Crown's standard adhesive! 5-mil rubber-based adhesive designed for applications requiring high tack and adhesion with excellent shear strength. Specially formulated with a 1-mil polyester carrier and sta-flat liner to provide excellent die cutting and adhesion to low surface energy substrates. Maximum operating temperature: 175°F (79°C) continuous, 200°F (93°C) intermittent.
<b>FT 1150</b>	2-mil general-purpose acrylic transfer adhesive with excellent temperature, UV, and solvent resistance. Good adhesion allows for bonding to a wide variety of substrates. Excellent die cutting characteristics. Maximum operating temperature: 225°F (107°C) continuous, 275°F (135°C) intermittent.
<b>FT 1123</b>	3-mil high-tack acrylic transfer adhesive with excellent initial tack and adhesion to a wide variety of substrates. Densified kraft release liner provides superior die cutting properties. Maximum operating temperature: 200°F (93°C) continuous, 250°F (121°C) intermittent.
<b>FT 1126</b>	5-mil high-tack acrylic transfer adhesive with excellent initial tack and bondability to a wide variety of substrates, especially textured substrates. Heavy adhesive mass and densified kraft release liner for superior die cutting properties. Maximum operating temperature: 200°F (93°C) continuous, 250°F (121°C) intermittent.
<b>FT 8346</b>	5-mil double-coated acrylic with excellent adhesion to low surface energy substrates, including foams. Good shear strength and temperature range. Maximum operating temperature: 200°F (93°C) continuous, 250°F (121°C) intermittent.
<b>HPA 1905</b>	5-mil acrylic with excellent adhesion for applications requiring good holding power under stress, load, and environmental resistance. Chemical, solvent, heat, humidity, and UV resistance. Thick adhesive mass allows for improved bonding and gap fill. Maximum operating temperature: 400°F (204°C) continuous, 450°F (232°C) intermittent.
<b>UHA 1198</b>	Heavy 8-mil mass of firm rubber adhesive modified for higher temperature resistance and adhesion to low surface energy substrates. Maximum operating temperature: 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 64-72°F (18-22°C), 30-70% relative humidity, out of direct sunlight and in original packaging.

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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