

RAILDEC-SF LT

RAILDEC-SF LT is a decorated thermoplastic sheet laminate that can be thermoformed into a variety of transit vehicle interior parts. RAILDEC-SF LT is graffiti and stain resistant, and meets the U. S. Department of Transportation requirements for flammability and smoke emission, and the Bombardier toxic gas emission.

THICKNESS	RAILDEC-SF LT is available in nominal thicknesses from 0.025" to 0.250" to provide the optimum balance of part depth and stiffness.												
COLOR	RAILDEC-SF LT is available in solid colored or printed sheets, and solid colored continuous material. Custom colors and patterns are available.												
TEXTURE	RAILDEC-SF LT is available in a number of standard sheet textures, continuous Mesa-O and Mesa-C textures (see the Skyline Products texture chart), and custom textures may be available upon request. All textures exhibit good texture retention at lower forming temperatures, and RAILDEC-SF LT will accurately reproduce textured mold detail.												
GLOSS	RAILDEC-SF LT is available in both high and medium gloss variations.												
SURFACE	RAILDEC-SF LT is available with a SP Tedlar ^{®1} surface for both graffiti resistance and high formability. This surface exhibits exceptional resistance to staining, solvents, chemicals, and abrasion, and is very easy to clean with common cleaners.												
QUALITY	Founded on years of experience, high quality materials, and a controlled process, the color, texture, and integrity of this product is guaranteed.												
PROPERTIES	RAILDEC-SF LT is a thermoplastic sheet laminate, which exhibits excellent part stiffness and impact resistance, and accurate reproduction of mold detail in conventional thermoforming operations at forming temperatures of 270°F to 350°F (132°C to 177°C) ² .												
TYPICAL APPLICATIONS	<table border="0"> <tr> <td>Bullnose</td> <td>Ceilings</td> <td>Closets</td> </tr> <tr> <td>Door Linings</td> <td>Lavatory Fixtures</td> <td>PSU Panels</td> </tr> <tr> <td>Seat Parts</td> <td>Stowage Bins</td> <td>Tray Tables</td> </tr> <tr> <td>Trolley Panels</td> <td>Window Panels</td> <td>Window Shades</td> </tr> </table>	Bullnose	Ceilings	Closets	Door Linings	Lavatory Fixtures	PSU Panels	Seat Parts	Stowage Bins	Tray Tables	Trolley Panels	Window Panels	Window Shades
Bullnose	Ceilings	Closets											
Door Linings	Lavatory Fixtures	PSU Panels											
Seat Parts	Stowage Bins	Tray Tables											
Trolley Panels	Window Panels	Window Shades											
FORMAT	RAILDEC-SF LT is available in sheets nominally 60 inches (1524 mm) wide, by 96 inches (2438 mm) long, or continuous rolls nominally 0.025 inches (0.76 mm) thick and 60 inches (1524 mm) wide. Other sizes are available upon request.												

¹ Tedlar[®] is the registered trademark of the DuPont Company.

² Acceptable texture retention requires forming temperatures as low as 270°F (132°C)

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CHARACTERISTIC	TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS	Micrometer before texturing	inch / mm	0.025 / 0.64 ¹ 0.080 / 2.0 ² 0.120 / 3.0 ³ 0.160 / 4.1 ⁴	
WEIGHT	ASTM D 461 (11)	oz/yd ² / g/m ²	22 / 746 ¹ 71 / 2407 ² 106 / 3593 ³ 141 / 4780 ⁴	
COLORFASTNESS TO LIGHT	FTMS No. 191 Method 5660	Pass / Fail	Pass (no change after 50 hours)	
TENSILE STRENGTH	ASTM D-638	psi / MPa	7700 / 53.1 ³	
FLEXURAL STRENGTH	ASTM D-790	psi / MPa	13000 / 89.6 ³	
FLEXURAL MODULUS	ASTM D-790	psi / MPa	343000 / 2365 ³	
IMPACT RESISTANCE	ASTM D-4812	Izod Unnotched ft-lbs/inch	14.0 ³	
HARDNESS	ASTM D-785	Rockwell R	113 ³	
HEAT DEFLECTION TEMPERATURE	ASTM D-648	°F / °C at 264 psi	201 / 94 ³	
FLAMMABILITY	ASTM E-162	Average Flamespread Index (Is)	9.1 ⁴	
SMOKE DENSITY	ASTM E-662	^{90 sec} Ds, ^{4 min} Ds	flaming	24 / 124 ⁴
TOXIC GAS EMISSION	Bombardier SMP 800-C	ppm	CO CO ₂ NO+NO ₂ (NO _x) SO ₂ HCl HF HBr HCN	<3500 <90000 <100 <100 <500 <100 <100 <100
DRYING TIME	Experiment	hours	1 hour at 250°F (121°C) per 0.040 inches (1 mm) of thickness	
FORMING TEMPERATURE	Experiment	°F / °C	270°F - 350°F / 132°C - 177°C	
MOLD SHRINKAGE	Experiment	in / in mm / mm	0.004 - 0.006 ³ 0.004 - 0.006 ³	

¹ Tests performed on 0.025-inch thick material bonded to 0.125-inch thick fiberglass-phenolic-Nomex-honeycomb panel with HAA

² Tests performed on 0.080-inch thick material

³ Tests performed on 0.125-inch thick material

⁴ Tests performed on 0.160-inch thick material