

Technical Data

ReflecTech[®] Mirror Film

Performance Characteristics

Specular Reflectance ⁽¹⁾	94 %	At 25 mrad, 660 nm
Solar-Weighted Hemispherical Reflectance ⁽²⁾	93 %	DIN 5036-1, 3 ASTM E891

(1) At 1.4° acceptance angle measured on Devices & Services 15R Specular Reflectometer

(2) Integrated over direct normal air mass 1.5 solar spectrum.

Product/Physical Characteristics

	Machine Direction	Transverse Direction	
Tensile Strength (MPa)	61	64	ASTM D882
Elongation at Break (%)	88	72	ASTM D882
Yield Strength at 2% Offset (MPa)	40	36	ASTM D882
Yield Elongation at 2% Offset (%)	4.7	4.6	ASTM D882
Modulus (MPa)	1430	1566	ASTM D882
Nominal Thickness	0.004 in	<i>(4 mils, 0.1 mm)</i>	
Coefficient of Thermal Expansion (cm/cm/°C)	5.5 x 10 ⁻⁵		ASTM E831

Application Characteristics

Adhesion to Aluminum ⁽³⁾	Initial 11.4	ASTM D903
180° Peel Strength (N/25mm)	Fully Cured 19.9	ASTM D903

(3) Adhesion depends on the nature of the surface. The indicated values are for reference only.

Storage and Operation

Shelf Life ⁽⁴⁾	1 year
Maximum Operating Temperature	60°C <i>(140°F)</i>
Cleaning	Brushless pressure wash with de-mineralized or de-ionized water only

(4) Store in clean and dry environment that is not in direct sunlight in a location with an ambient temperature of 100°F (38°C) or less.