

Technical Data

ReflecTech® Mirror Film

Performance Characteristics

Specular Reflectance ⁽¹⁾	94 %	At 25 mrad, 660nm
Solar-Weighted Hemispherical Reflectance ⁽²⁾	93 %	DIN 5036-1, 3 ASTM G 173-03

(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	0.004in	(4 mils, 0.1 mm)	
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	(140°F)
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.