

FlexiShield

Paint Protection Film

www.FlexiShield.com



What is Moonroof Protection Film?

FlexiShield Moonroof Protection (MRP) is a premium soft-film solution engineered from **optical-grade thermoplastic polyurethane (TPU)**. Each MRP sheet is precision-cut to fit the exact contours of your moonroof. Known for its exceptional strength and durability, TPU also features advanced self-healing properties—allowing the film to recover from scratches, marks, or surface stress and return to its original smooth finish.

Engineered with cutting-edge hydrophobic and stain-resistant technology, MRP maintains crystal-clear optical transparency while enhancing driving comfort by reducing glare and distortion. **Its protective barrier shields your moonroof from hail, stone chips, and flying debris, while advanced UV and infrared (IR) solar control technology helps block harmful rays and reduce cabin heat for improved comfort and protection.**

With in-house innovation and proven expertise, FlexiShield MRP is the ultimate choice for safeguarding your moonroof, trusted by discerning vehicle owners and professional installers worldwide.

A brand of:



MRP

COVERAGE YOU CAN COUNT ON!



100% US manufactured,
developed and tested under the
blazing Arizona sun.

FlexiShield MRP

Protecting your moonroof from heat and impact

FlexiShield MRP is the ultimate thermoplastic polyurethane (TPU) film designed specifically for moonroofs. At 7.0mil (178 μ) thickness and engineered with an ultra-clear, extra-hard topcoat free of orange peel, MRP delivers outstanding optical clarity, superior durability, and hydrophobic performance.



Shatter Safety

Holds glass together in case of impact, reducing the risk of dangerous shards.



UV & IR Block

Cuts harmful UV rays and minimizes heat build-up for a cooler, more comfortable cabin.



Glare Reduction

Enhances driving visibility by reducing harsh sunlight entering through the moonroof.



Scratch & Wear Resistant

Durable surface resists scratches, weathering, and everyday wear.



Optically Clear Finish

Maintains crystal-clear visibility with no distortion or haze.

Available in VLT 70, 35, and 20, FlexiShield MRP gives you the choice between maximum natural light, balanced shading, or strong solar rejection—without compromising visibility. It reduces solar glare and heat, blocks harmful UV rays, and reinforces the moonroof against shattering on impact, making every drive safer and more comfortable.

7.0mil (178 μ) TPU
Glossy | VLT 20, 35 & 70%
3-year warranty

MRP SPECIFICATIONS

Total Thickness	7.0 mil (178 μ)	PCE Thickness Gauge
Top Coat	0.5 mil (13 μ)	
Polyurethane Film	6.0 mil (152 μ)	
Adhesive	0.5 mil (13 μ)	

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

MRP	MRP-70 IR Film Ceramic	MRP-35 Sputtered Stainless Steel	MRP-20 Sputtered Stainless Steel	
TPU Haze (Clarity) Δ	0.8%	1.4%	1.4%	ASTM E1003-1 Original 0.8
Yellowing Δ	<0.9%	<0.9%	<0.9%	ASTM D1925-70
Self Healing Δ		Pass		Lab Testing
Cold Slam - Cracking or Peeling		Pass		TPJLR.52.055
Elongation (at break MD)	>275%	>260%	>260%	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects			Lab Testing
20° Gloss (Stainless steel surface)	6H	6H	6H	ASTM D3363
Chip Resistance Gravelometer	No Penetration			ASTM D3170
Visible Light Transmission (VLT)	70%	35%	20%	Lab testing
Ultraviolet (UV) Protection	99%	99%	99%	
Infrared (IR) Rejection	89%	85%	84%	

Adhesion Performance

Peel Adhesion 180 Degree Peel 1.0 mil coating Paint Surface	449.0 N/m	41 oz/in	20 minutes at room temperature
	481.0 N/m	44 oz/in	24 hours at room temperature
	514.0 N/m	47 oz/in	1 week at room temperature
	689.0 N/m	63 oz/in	1 week at 160°F/70°C
	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

* Thickness tolerance: Maximum +/- 8%. Data provided by TPU manufacturer.

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intertek
Total Quality. Assured.



SGS



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NGA
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