



Fluoropolymer Linings and Coatings

Technical Data

FluoroGrip® – PV(PVDF) Kynar®

Industrial Uses

Type

FluoroGrip® – PV fluoropolymer films, sheets and linings are manufactured from polyvinylidene fluoride (Kynar®). FluoroGrip® – PV film offers outstanding properties such as UV stability, chemical and fire resistance, and abrasion protection.

Applicable in a variety of high-performance applications, FluoroGrip® – PV offers an outstanding cost/performance value and the best compromise between melt processability and high fluorine content among the polymers used in specialty films.

FluoroGrip® – PV is available standard with an advanced pressure sensitive adhesive (PSA) of acrylic or high temperature resistant silicone PSA. Special chemical resistant adhesives are available. Consult Integument Technologies for specific material recommendations.

FluoroGrip® – PV is available with either a single-sided or double-sided surface plasma modification treatment.

Uses

FluoroGrip® – PV film is an excellent low cost choice for anti-graffiti and non-stick applications, corrosion protection, and architectural coatings systems for metal, glass, and other exterior surfaces due to its outstanding weatherability in terms of color stability and gloss retention.

The variety of FluoroGrip® – PV applications also include pulp & paper, semiconductor, nuclear, mining, metal prep, pharmaceutical, petrochemical, food & beverage, wastewater, flame retardation, and general chemical and halogen resistance.

Technical Data

Physical Properties

General

	ASTM Method	Metric Value	Metric Units	English Value	English Units
Specific Gravity	D-792	1.77-1.79		1.77-1.79	
Yield (1mil film)		22	m ² /kg	107	ft ² /lb
Flammability	UL-94		V-0		V-0
Water Absorption (24 hrs)	D-570	0.02	%	0.02	%

Available Thicknesses (Film Only; Not Including Adhesive)	2 mil, 5 mil, 10 mil
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Mechanical

	ASTM Method	Metric Value	Metric Units	English Value	English Units
Tensile Strength	D-638	49-55	MPa	7105-7975	Psi
Elongation, Ultimate	D-638	50-250	%	50-250	%
Tensile Modulus	D-638	1600-2200	MPa	232000-319000	Psi
Initial Tear Strength, 3mil				1620	lbs/in
Propagating Tear Strength, 1mil	D-1004			735	gm/mil

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Performance

FluoroGrip® – PV film has outstanding resistance to chemicals, abrasives, weathering and high-energy radiation providing protection to the aesthetics of UV sensitive substrates while also providing a thermal, chemical and abrasion resistant barrier.

Note

Refer to FluoroGrip® installation manual and instruction guide for the use and installation of FluoroGrip® films, membranes and lining systems.

Certifications:

*FluoroGrip® – PV is designed to meet the requirements to comply with the FDA's Register of Food Additive Regulations.

Technical Data

Physical Properties

Electrical

	ASTM Method	Metric Value	Metric Units	English Value	English Units
Dielectric Strength, 1mil	D-149	12.4	kV/mm	310	V/mil
Dielectric Constant, 1kHz	D-150	6.9		6.9	
Dissipation Factor, 1kHz	D-150	0.013		0.013	

Thermal

	ASTM Method	Metric Value	Metric Units	English Value	English Units
Melt Point	D-3418	165-168	°C	329-335	°F
Continuous Service Temp.*		A 130 S 159	°C	A 265 S 315	°F
Heat Sealing Temp.		220-235	°C	425-450	°F
Degradation Temp.*		A 164 S 178	°C	A 325 S 500	°F

* **A** = Acrylic Adhesive **S** = Silicone Adhesive

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