

PRODUCT DATA

PRODUCT #: Custom

DESCRIPTION:

KAPGUARD

WITH KYNAR® PVDF

PRODUCT INFORMATION:

KAPGUARD® is a line of top finishes custom formulated with Kynar® polyvinylidene fluoride (PVDF) resin, a tough thermoplastic polymer in both water and solventborne chemistries. APV incorporates unique, proprietary polymer blends, UV blocking additives and specialty grade inorganic pigments into the chemistry producing coating lifecycles that are unprecedented.

The product is ideal for fiberglass reinforced pultrusions, PVC and composite substrates used in outdoor building products, such as window and door profiles, to provide exceptional performance under thermal, chemical, and harsh UV environments.

KAPGUARD® is applied at the OEM by spray, roll, or vacuum coater with a low temperature curing process.

AAMA 625-10 Fiberglass Reinforced Pultrusions

Section	Specification	Method	Result	Qualification	Method
4.3	DFT	10' from surface & inspected at an angle of	1.6 Mil	Pass	ASTM D 4138
6.3.1	Hardness	Pencil test	F Minimum	Pass	ASTM D 3363
6.4.1.1	Adhesion	crosshatch	5-B	Pass	ASTM D 3359
6.4.1.2	Wet Adhesion	100 °F soak @ 24 Hrs	5-B 4-B	Pass	ASTM D 3359
6.4.1.3	Boiling Water	100 °C soak @ 20 Minutes	5-B 4-B	Pass	ASTM D 3359
6.5.1	Direct Impact	5/8 ball 80 inch/pb	No Film Removal	Pass	n/a
6.7.1	Muriatic Acid Resistance	15 Minute 10% Solution	1.0 unit color change, 4% gloss	Pass	n/a
6.7.3	Nitric Acid Resistance	Vapor 30 Minutes	1.25 unit color change, 0.7% gloss	Pass	n/a
6.8.1	Detergent	100 °F soak @ 72 Hrs	5-B 4-B +4.6% gloss change	Pass	n/a
6.9.1	Windex	24 hrs	4-B no blisters +2.28% gloss change	Pass	n/a

FEATURES:

20+ Year Coating Life Cycle

Exceptional Resistance to UV Degradation

Long Term Color Retention

Water-based and Solvent-based Options

Low VOC Formulations

Resists Water Pick-up

Resists Mold & Mildew Growth

Repels Stains, Dirt, Grease

Performs Under Abrasive Environments



TECHNICAL DATA SHEET

**PRODUCT CODE(S):**

P-1696

PRODUCT DESCRIPTION:

KAPGUARD WHITE PULT T/C

PHYSICAL PROPERTIES:

COLOR:	WHITE
TYPE:	WATER BASED
VISCOSITY:	750-900 CPS
WEIGHT PER GALLON:	10.05 lbs/gal ± 0.20 lbs. 1.20 g/ml ± 0.02 g/ml
SPECIFIC GRAVITY (ASTM D 1475-90):	1.200 ± .02
GLOSS @ 60°:	16
pH:	7.0-9.0
FLASH POINT:	> 54 °F 12.2 °C
SOLIDS:	52.39 % by weight 45.59 % by volume
THEORETICAL COVERAGE:	731.26 ft ² / gal @ 1.0 mil dry 17.94 m ² /l @ 25.4 μ
VOC:	0.90 lb(s)/gal (107.9 g/l)
VOC (U.S.):	0.90 lb(s)/gal (107.9 g/l)

APPLICATION:

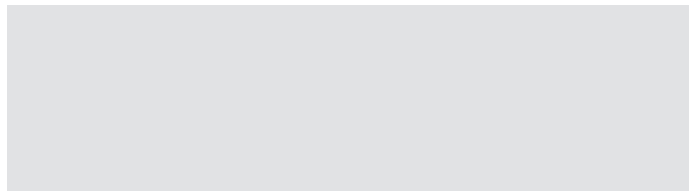
METHOD:	VACUUM COATER
CURE METHOD:	BAKE 250F FOR 15 MIN
REDUCTION:	AS NEEDED WITH WATER
CLEAN UP:	KETONE IF DRY , WATER WHEN WET
RECOMMENDED EQUIPMENT:	VACUUM COATER

SUBSTRATE:

TYPE:	PULTRUSION
PREPARATION:	CLEAN AND DRY. FREE FROM OILS

HANDLING & STORAGE:

SHELF LIFE:	6 MONTHS
FREEZE CAUTION:	PROTECT FROM FREEZING
RECOMMENDED STORAGE:	COOL, DRY, WELL VENTILATED

ADDITIONAL GUIDELINES:

A focused partner in advanced coating, chemical & manufacturing solutions...

Founded in 1878, APV Engineered Coatings custom engineers and manufactures industrial coatings and advanced chemical products out its state-of-the-art facility in Akron, Ohio. APV is a partner for some of the world's top producing manufacturers due to our expertise in chemical composition, the commercialization of advanced materials, and large-scale production with acute quality control. Our innovative solutions have been integrated into a variety of industries for unique applications.

At APV, clients work with knowledgeable and personable staff who are focused on delivering optimum solutions in an unprecedented timeframe. APV thrives by recognizing the importance of our clients' success, which have proved to create long-standing partnerships.



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The information and data given herein are based upon tests and reports considered reliable and are believed to be accurate. However, due to varied application and handling methods, no guarantee of duplicate performance, expressed or implied, is made.