



► ProTec Series 3960 Heavy Duty Overlaminates

ProTec Series 3960 overlaminates is a 12-mil (305 microns) film with a clear, permanent pressure-sensitive adhesive. The heavy gauge product is designed to protect decals and graphics while maintaining high clarity. ProTec Series 3960 is rated for an outdoor durability up to 2 years.

APPLICATIONS & FEATURES

- Protective overlaminates for racing, dirt bikes, and other recreational vehicles
- Ideal for applications needing exceptional durability and abrasion resistance
- Use in conjunction with Arlon's DPF 8000™ Ultra Tack or DPF 8200 High Tack film
- Designed to be laminated cold without any heat
- Excellent clarity and gloss retention
- Minimize silvering and enhance image quality with fast wet-out adhesive system

PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	70 to 90 Gloss Units	
THICKNESS	Micrometer, Federal Bench Type	12-mil (305 microns)	
TENSILE STRENGTH	Tensile Tester with 2-in (51 mm) jaw separation; crosshead speed of 12in/min (5.1 mm/s), web direction	≥ 45.67 lb/in	≥ 8.16 kg/cm
ELONGATION	Instron Tensile Tester as above	≥ 270%	
SHELF LIFE (IN BOX)	Ideal Storage Temperature 70°F (21°C) and 50% relative humidity	1 year from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	50°F to 80°F	10°C to 26°C
SERVICE TEMPERATURE RANGE	Film applied to etched aluminum panels 24 hours prior to testing	-40°F to 176°F	-40°C to 80°C
DIMENSIONAL STABILITY	158°F (70°C), 48 hours, on aluminum panel	20-mil	0.51 mm
PEEL ADHESION	PSTC-1, 15 min. 70°F (21°C)	≥ 3.00 lbs/in	529.56 N/m
LINER RELEASE	TLMI Release at 90°, 300in/min (760 cm/min)	38 g/2 in	7.48 g/cm
HUMIDITY RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing. 100% relative humidity, 100°F (38°C) for 500 hours.	No Appreciable Effect	
GASOLINE RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing. Immersed 30 minutes at 70°F (21°C), stabilized for 24 hours before inspection.	No Appreciable Effect	

Standard Terms & Conditions Apply

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TERMS & CONDITIONS

The following is made in lieu of all warranties expressed or implied:

All orders and purchases made in connection with this document are governed and limited by Arlon's Standard Terms and Conditions, which are incorporated in full by this reference and are available at https://www.arlon.com/eu_en/legal/terms-and-conditions or in hardcopy by request.

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