



TRINSEO™

INDURO™

Durability for the long haul

Highly engineered continuous
cast acrylic capped sheet
for transportation

2023 Global | English

Connecting ideas with solutions

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Easily withstands exterior demands



INDURO™ is a highly engineered, acrylic capped sheet, formulated to withstand demanding, exterior applications. Temperature resistance, scratch and chemical protection, consistent form and weight, INDURO™ provides a best-in-class superior strength solution for a range of applications within the Recreational Vehicle and Transportation markets.

Compared to Gel Coat and other thermoplastic solutions, INDURO™ holds greater color retention, and gloss level surface finish durability which will last year over year, exceeding customer's expectations.

The Benefits of INDURO™

Superior Physical Properties

- High impact resistance
- Consistency in form, and function
- Renewable and repairable surface finish characteristics

Proven Weatherability

- Extreme UV stability
- No warpage
- No dullness
- Superior color fastness

Excellent Chemical Resistance

- Bacteriostatic surface does not harbor germs
- Impervious stain and chemical resistance

Premium Aesthetics

- Exceptional high gloss finish
- Premium color matching by our lab with over 100+ years of combined experience
- Superior color fastness





Top Markets

- Boat Construction
- Marine Engine Covers
- Agricultural Equipment
- Construction Equipment
- Recreational Vehicles
- Electric Vehicles
- Heavy Truck
- Specialty Vehicles

Product Offering

- Sheets
- Gauges = 0.170" to 0.500"
(4.3 mm to 12.7 mm)
- Widths = Up to 104" (2,642 mm)
- Lengths = Up to 245" (6,223 mm)
- Surface = High Gloss
- Colors = Opaques, Metallics, Pearls, Granites
(custom color matching available upon request)



Physical Properties

INDURO™ is a highly engineered continuous cast acrylic capped sheet built for longevity to withstand the toughest of elements within the transportation and mobility market. Capabilities range from 0.187 in. (4.7 mm) up to 0.450 in. (11.4 mm) Please reach out to technical service, if other caliper performance is needed (pending product availability).

Property	Typical Values	Units	Test Method
General			
Thickness	0.275 (7)	inch (mm)	—
Specific gravity	1.10	—	ASTM D-792

Mechanicals and Technical

Tensile strength	6,500 (44.8)	psi (MPa)	ASTM D-638
Tensile modulus	380,000 (2,620)	psi (MPa)	ASTM D-638
Tensile elongation	5.0	%	ASTM D-638
Flexural strength (acrylic in compression)	10,000 (68.9)	psi (MPa)	ASTM D-790
Flexural modulus (acrylic in compression)	310,000 (2,137)	psi (MPa)	ASTM D-790
Flexural strength (acrylic in tension)	10,800 (74.5)	psi (MPa)	ASTM D-790
Flexural modulus (acrylic in tension)	314,000 (2,165)	psi (MPa)	ASTM D-790
Notched Izod impact	2.4 (12.6)	ft.lbs./in. of notch (kJ/m²)	ASTM D-256 (method A)
Falling dart impact	> 30 (40.7)*	ft.lbs. (J)	FTMS 406 M-1074
Barcol hardness	52	—	ASTM D-2583
Rockwell hardness (m)	97	—	ASTM D-785

Thermal

Hot forming temperature (Acrylic side)	350 - 380 (177 - 193)	°F (°C)	Aristech method
Hot forming temperature (Abs side)	300 - 340 (149 - 171)	°F (°C)	Aristech method
Coefficient of thermal expansion	4.4x10 ⁻⁵ (7.9x10 ⁻⁵)	in./in./°F (cm/cm/°C)	ASTM D-696
Dt _{ul} @ 264 psi (1.82 Mpa)	193.0 (89.4)	°F (°C)	ASTM D-648
Flammability	94hb	—	UL test #94

Miscellaneous

Water absorption	0.19	%	ASTM D-570
Odor	None	—	—
Taste	None	—	—
50 Cycles freeze-thaw -20°F (-29°C) to 180°F (82.2°C)	No effect	—	Inhouse method

* Actual value higher — This is the limit of the test apparatus.



For more information, visit aristechsurfaces.com or contact us
Telephone: +1.800.354.9858
Email, Americas: aristechinfo@trinseo.com
Email, Europe: aristechinfoeurope@trinseo.com

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