

ALSYNITE ULTRA-Cool



TRANSLUCENT SHEETING

Featuring the new DuPont Teijin A15 Melinex® High Performance Film, together with our newly developed advanced Polyester Resin System



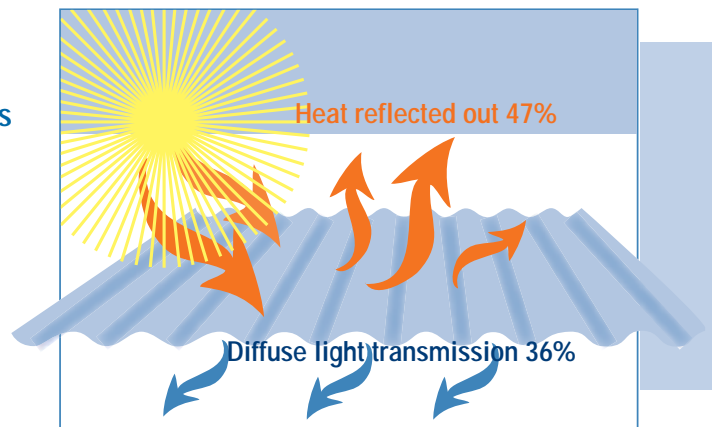
ALSYNITE ULTRA-Cool is a premium quality Glass Reinforced Polyester (GRP) sheet which transmits natural diffused white light whilst controlling solar heat transmission.



ALSYNITE manufactures its film products using 100% DuPont Teijin Melinex® Films.

KEY FEATURES

- › Excellent light diffusion properties
- › Outstanding long term reflection of solar heat
- › Substantial savings in energy costs
- › Excellent long term weathering characteristics
- › Unique to ULTRA-Cool is its distinctive Ultra White laminated underside film layer
- › Superior long term clarity
- › Outstanding surface erosion resistance
- › Non delaminating surface technology
- › 25 Year Warranty - conditions apply
- › Available in over 140 profiles



DEMAND THE BEST -

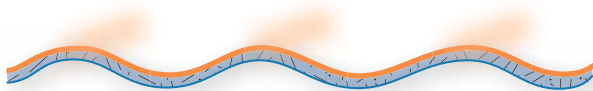
DEMAND DUPONT TEIJIN MELINEX® FILM

Alsynite selects only DuPont Teijin protective films and coatings in the manufacture of its range of superior quality roofing products.

There is no substitute for quality. Please compare apples with apples when selecting roofing products.

DuPont Teijin films are the leading innovators in protective film technology and Alsynite would use no other.

Please demand Alsynite products with their superior DuPont Teijin Melinex® films from your local roofing supplier.



- DuPont Teijin Melinex® A15 High Performance Film Technology
- Modified High Performance Resin System With Glass Reinforcement
- DuPont Teijin Melinex® Ultra White Underside Film

ACCELERATED WEATHERING LABORATORY TEST RESULTS COMPARISON DATA ON YELLOWING & FIBRE SHOW



ALSYNITE ULTRA

This product remains virtually unchanged after 12,500 hours

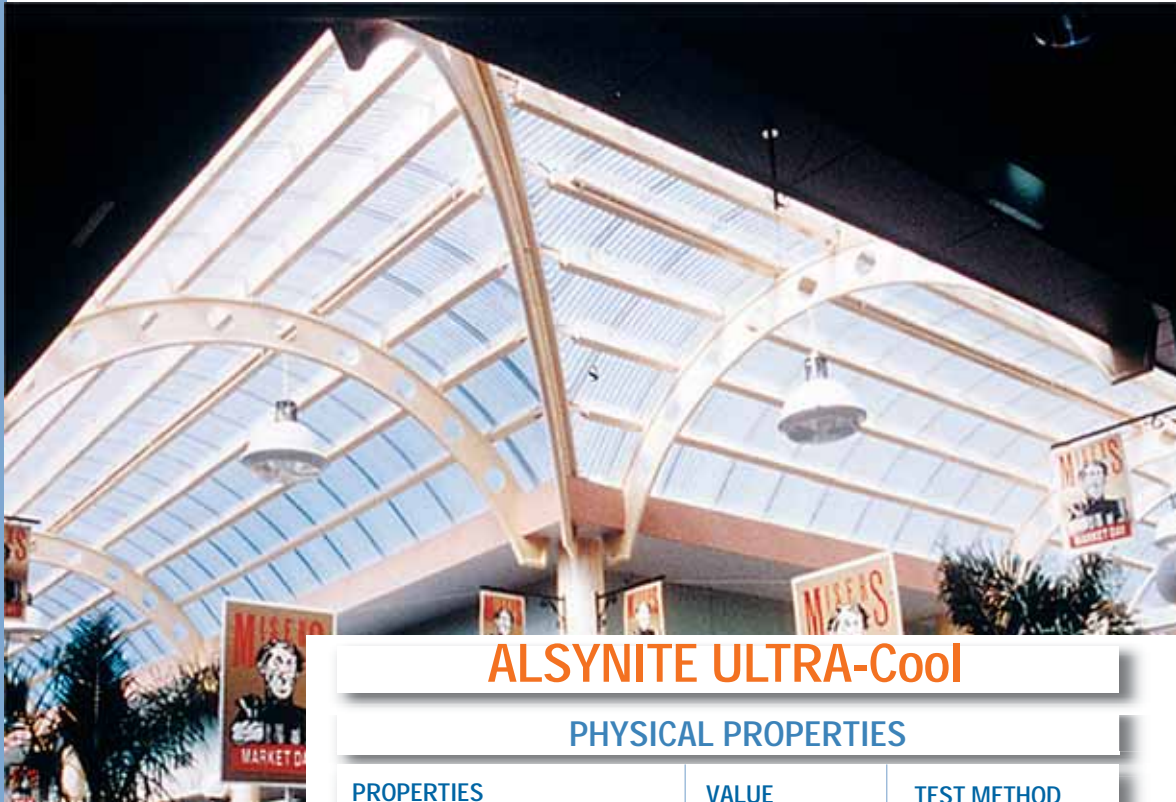
VERSUS



301/R74 FILM TECHNOLOGY

This product yellows after 12,500 hours

ALSYNITE ULTRA WILL RESIST YELLOWING & FIBRE SHOW SIGNIFICANTLY LONGER THAN 301/R74 FILM TECHNOLOGY



ALSYNITE ULTRA-Cool

PHYSICAL PROPERTIES

PROPERTIES	VALUE	TEST METHOD
Specific Gravity(gm/cc)	1.41	STM-D792-86A
Thermal Expansion 10^{-5} cm/cm/°C	2.2	STM-D696-81
Water Absorption (%)	0.52 to 0.60	STM-D570-81
Thermal Conductivity (W/m ² K)	0.158	STM-C177-81
Heat Distortion Temperature (°C)	+180 to 200	STM-D648-86
Operating Temperatures (°C)	-20 to + 110	-

MECHANICAL PROPERTIES

PROPERTIES	VALUE	TEST METHOD
Barcol Hardness	> 50	AS/NZS 4256.3
Glass Content (%)	26.3	AS/NZS 4256.3
Tensile Strength (MPa)	94	ASTM D638-89
Flexural Strength (MPa)	177	ASTM D790-86
Flexural Modules (GPa)	6.7	ASTM-D790-86
Mean Impact Strength (J)	8.9	AS/NZS 4256.3
Compressive Strength (MPa)	135	ASTM 695-83
Shear Strength (MPa)	90	ASTM 732-82
Impact Resistance	Pass	AS/NZS 4256.3

SOLAR OPTICAL PROPERTIES

PROPERTIES	Ultra White
Solar Transmittance	0.22
Luminous Transmittance	0.18
Diffused Light Transmission	36
Shading Co-efficient	0.33
U-Value (W/m ² K)	5.7
Solar Heat Gain (W/m ²)	227
Solar Heat Gain Co-efficient	0.29
Transmittance 380-320nm (UV-A)	-
Transmittance 320-280nm (UV-B)	-

NOTE: Results of tests are based on a 2400g/m² sheet.

ALSYNITE ULTRA-Cool PRODUCT SPECIFICATION

Description:	The product shall be ALSYNITE ULTRA-Cool Glass Reinforced Polyester Sheeting
Surface Coating:	TOP: DuPont Teijin Melinex® A15 Film UNDER: DuPont Teijin Melinex® Ultra White Underside Film
Resin System:	The Resin System shall be.....[HPRS, 50FR, 25HTH or other]
Product Certificat'n:	To AS/NZS 4256.3 : 1994
Production Manufacturing Standard:	To ISO 9001 : 2000
Profile:	The Profile shall be.....
Weight:	The Weight shall be.....[1800, 2400, 3050, 3660, 4880 or other g/m ²]
Colour:	The Colour shall be ULTRA WHITE
Installation:	To be carried out in accordance with the Australian/New Zealand Design and Installation of sheet roof and wall cladding products AS/NZS 1562.3 : 1996 and Alsynite Roofing Products Pty Ltd Installation and Maintenance procedures

GENERAL INFORMATION: ALSYNITE ULTRA-Cool

- ▶ The standard series weight is 2400 g/m², however, other weights are available to special order. Typical series weights are: 1800, 3050, 3660 and 4880g/m².
- ▶ Standard sheet lengths are available up to 12.2m. Other non-standard lengths are available subject to special order.
- ▶ Only available in an Ultra White finish.
- ▶ The Resin System - an advanced general purpose grade orthophthalic polyester.
- ▶ Surface coating - DuPont Teijin: A15 Melinex® improved UV protection film. 20 micron nominal thickness.