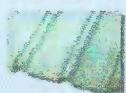


ALSYNITE ULTRA

TRANSLUCENT SHEETING



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



ALSYNITE ULTRA is a premium quality Glass Reinforced Polyester (GRP) sheet with excellent long term weathering properties. The exposed surface features a new improved ultra violet surface protection film known as A15 Films. Together with a unique polyester resin formulation, our advanced system is proudly backed by a 25 year performance warranty. Available in a wide range of profiles, weights and colours, ALSYNITE ULTRA is the premium choice for roofing and cladding applications.

KEY FEATURES

- Superior long term clarity
- Outstanding surface erosion resistance
- Non delaminating surface technology
- Excellent long term weathering characteristics
- 25 Year Warranty - conditions apply
- Available in over 140 profiles

DEMAND THE BEST - DEMAND A15 FILM

Alsynite selects only A15 protective films and coatings in the manufacture of its range of superior quality roofing products.

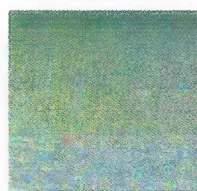
There is no substitute for quality. Please compare apples with apples when selecting roofing products.

A15 films are the leading innovators in protective film technology and Alsynite would use no other.

ALSYNITE ULTRA PRODUCT SPECIFICATION

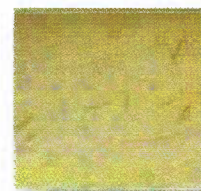
Description:	The product shall be ALSYNITE ULTRA Glass Reinforced Polyester Sheeting
Surface Coating:	TOP: A15 Film UNDER: A15 Underside Film
Resin System:	The Resin System shall be.....[HPRS, 50FR, 25HTH or other]
Product Certificat'n:	To AS/NZS 4256.3 : 1994
Production Manufacturing Standard:	To ISO 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.....[CLEAR, OPAL or other]
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

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



ALSYNITE ULTRA

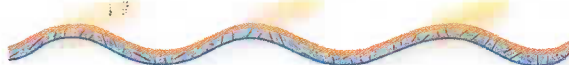
This product remains virtually unchanged after 12,500 hours



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



- A15 High Performance Film Technology
- Modified High Performance Resin System With Glass Reinforcement
- A15 Film Underside Film

James Hardie

ALSYNITE ULTRA

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 (%)	0.4146	ASTM-D570-98
Thermal Conductivity (W/m²K)	0.158	STM-C177-81
Heat Distortion Temperature (°C)	267.6	ASTM-D648-04
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)	121.9	ASTM-D638-03
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	CLEAR	OPAL
Solar Transmittance	0.68	0.58
Luminous Transmittance	0.67	0.53
Diffused Light Transmission	74	58
Shading Co-efficient	0.82	0.71
U-Value (W/m²K)	5.7	5.7
Solar Heat Gain (W/m²)	560	486
Solar Heat Gain Co-efficient	0.72	0.62
Transmittance 380-320nm (UV-A)	0.04	-
Transmittance 320-280nm (UV-B)	0.006	-

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

GENERAL INFORMATION: ALSYNITE ULTRA

- ▶ The standard series weight of ALSYNITE ULTRA is 2400 g/m², however, other weights are available to special order. Typical series weights are 1800, 3050, 3660 and 4880 g/m²
- ▶ Standard sheet lengths are available up to 12.2m. Other non-standard lengths are available subject to special order.
- ▶ Standard colours are Clear and Opal. Other colours available subject to consultation.
- ▶ The Resin System - an advanced general purpose grade orthophthalic polyester.
- ▶ Surface coating - A15 Film improved UV protection film. 20 micron nominal thickness.