



## PROFILED PRODUCT RANGE

### MAIN BENEFITS

- ◆ Impact resistant: virtually unbreakable
- ◆ Transparent - up to 90% light transmission
- ◆ Weather and UV resistant
- ◆ Wide service temperature range
- ◆ UV screening - better than sunscreens
- ◆ Lightweight
- ◆ Good flammability rating - does not emit toxic gasses when burning
- ◆ Warranted against yellowing, loss of light transmission and hail penetration
- ◆ Easy to work with and install

## TYPICAL APPLICATIONS

### **Agriculture:**

- ◆ Commercial greenhouses
- ◆ Garden centers

### **Construction and Industry**

- ◆ Rooflights and skylights
- ◆ Architectural structures, industrial facilities, public buildings etc.
- ◆ Canopies and shelters (garages, swimming pools, etc)
- ◆ Partitions
- ◆ Covered walkways and sidewalks

### **Do-It-Yourself (DIY)**

- ◆ Skylights
- ◆ Canopies and awnings
- ◆ Porches and verandas
- ◆ Carports or garages (parking shelters)
- ◆ Domestic swimming pools
- ◆ Gazebos or pergolas
- ◆ Sunrooms
- ◆ Outdoor play or family areas
- ◆ Hobby greenhouses



## LIGHT & HEAT TRANSMISSION PROPERTIES

Color	Visible light Transmission	Haze	Heat (Shading coefficient)
Clear	90%	< 5	1.00
White Opal	30% (35%)	100%	0.45
White Diffuser	87%	100%	0.92
Bronze	25%	35%	0.64
Solar Control	50%	35 - 40%	0.64
Blue	35%	< 5	0.87
Green	45%	< 5	0.84

IBR 0.8mm - CLEAR, OPAL, DIFFUSED, BRONZE

IBR 1.0MM - CLEAR, OPAL, DIFFUSED, BRONZE, SOLAR CONTROL, BLUE & GREEN

IBR 1.2MM - CLEAR, OPAL, DIFFUSED, BRONZE & SOLAR CONTROL

CORR 0.8MM - CLEAR & OPAL ONLY

CORR 1.0MM CLEAR - CLEAR, OPAL, BRONZE & SOLAR CONTROL

WIDEDEK 1.0MM - CLEAR, OPAL, DIFFUSED, BRONZE & SOLAR CONTROL

WIDEDEK 1.2MM - CLEAR, OPAL, DIFFUSED & SOLAR CONTROL

GRECCA 1.0MM - CLEAR, OPAL, BRONZE & GREEN

SUNLOK (KLIPLOK 700) - CLEAR, OPAL & DIFFUSED

## TYPICAL PHYSICAL PROPERTIES

Property	Method	Conditions	Units	Value
Density	D-792		g/cm <sup>3</sup>	1,2
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MPa	C	135
Service Temperature Range (Short term)			C	-50 to +120
Service Temperature Range (Long term)			C	-50 to +100
Coefficient of linear thermal expansion	D-696		Cm/cmC	6.5 x 10 <sup>-5</sup>
Thermal conductivity	C-177		W/m k	0.21
Tensile strength at yield	D-638	10 mm/min	MPa	62
Tensile strength at break	D-638	1 mm/min	MPa	65
Elongation at yield	D-638	10 mm/min	%	6
Elongation at break	D-638	10 mm/min	%	>70
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,300
Flexural strength mechanical	D-790	1 mm/min	MPa	93
Flexural modulus	D-790	1.3 mm/min	MPa	1,890
Impact falling weight	(ISO 6603/1 E50)	0.8 mm sheet	J	50
Rockwell hardness	D-785		R Scale	118
Light Transmission	D-1003	Clear sheet	%	90%
Haze	D-1003	Clear sheet	%	< 0.5
Yellowness index	D-1003	Clear sheet	YI	< 1

\*ASTM method except where noted otherwise

### FLAMMABILITY

Has a low flammability rating and does not emit toxic gasses when burning.

Standard	Classification*
EN13501	B, s1, d0
NFP 92501, 4, 5	M-1
DIN 4102	B-1
UL 723	4.7,47.0
Los Angeles Building Code	CC2 (Section 2603
UNI 9177,9176	Class 2

\*For additional information please contact us

### UV BLOCKING AND RESISTANCE

It transmits radiation selectively. It shield against harmful UV rays completely, In addition, it withstands the detrimental effects of UV radiation.

## LIMITED WARRANTY

### Definition

'SUNTUF' Manufacturers Limited Warranty up to 20 Years - the Manufacturer warrants that 'SUNTUF' translucent polycarbonate sheets are of good quality, in good working order and free of any defects, subject to terms set herein.

### Commencement Date

The commencement shall be the date of the Product's manufacture or, if such date does not appear on the Product, the date upon which the Product was purchased from the Manufacturer.

### Scope of Warranty

- 1) Light transmission - product shall not lose more than 10% of its light transmitting capability for a period of 10 years from commencement date and no more than 1.5% per year thereafter (up to 20 years) as a direct and exclusive result of solar radiation impact (as measured in accordance with the procedures specified in ASTM D-1003-77)
- 2) Colour - product shall not display change in colour of more than 15 units delta E in the case of transparent clear product or 20 units delta E in the case of Opal (hereinafter "decrease") for a period of 20 years from commencement date as a direct or exclusive result of impact from solar radiation (as measured pursuant to the procedures specified in ASTM E-308-85)
- 3) Breakage - product shall not break to loss of impact strength as a direct and exclusive result of weathering and/or shall not break as a direct and exclusive result of the impact of hail measuring less than 25mm in diameter and attaining a velocity of up to 20m/s (44.7mph). The loss of this capability is hereafter referred to as "breakage". Loss of impact strength will be tested according to the ISO 6603/1-1985(E) and/or ASTM D-5628-95 method F test applied to a sample of the broken sheet. This warranty only applies if the sample shatters (brittle breaks into separate pieces)
- 4) Limitations - Warranty only valid if product is handled, stored, cleaned, installed and maintained with manufacturer's recommendations and instructions.
- 5) Claims and Notifications - every Warranty claim must be notified in writing to the Manufacturer within the warranty period and immediately after the occurrence of decrease or breakage, enclosing the original sales receipt and this warranty. The claimant must allow the Manufacturer to inspect any or all the sheets involved and the installation site itself while the sheets are still in their original position and have not been removed or moved or altered in any way and /or, on the

Manufacturers instruction, return the sheets for testing. The Manufacturer reserves the right to investigate independently the cause of any failure.

- 6) Compensation - if a claim under this Limited Warranty is justified, the Manufacturer will provide the purchaser with substitute Product or, at its discretion, refund the original purchase price or a portion thereof, in accordance with the following schedule:

In the event that the Manufacturer is duly notified of decrease or breakage within 3 years of the Commencement Date, and a claim upon such decrease or breakage is properly made and approved, the Manufacturer will provide substitute Product at no cost or, at its discretion, refund the original purchase price

In the event that the Manufacturer is duly notified of decrease or breakage after 3 years of the Commencement Date, and a claim upon such decrease or breakage is properly made or approved, the Manufacturer will provide substitute Product on the following terms. The replacement price to be paid by the purchaser will be 10% of the Manufacturer's effective price at the time of replacement multiplied by the number of years from Commencement Date to replacement time, but not exceeding 90% of the Manufacturer's then effective price. At its discretion, the Manufacturer may refund the difference between the effective price and the replacement price instead of providing substitute Product.

The Manufacturer's liability does not include the costs of removal and installation of the sheets.

- 7) Jurisdiction - this Limited Warranty shall be governed by and shall be constructed according to the Laws of South Africa, without giving effect to its conflict of laws rules. Any dispute arising in connection with the interpretation and/or execution of this Limited Warranty shall be subject to the exclusive jurisdiction of the competent court in Johannesburg, South Africa.

EXCEPT AS PROVIDED FOR IN LAW, THIS LIMITED WARRANTY SHALL BE THE MANUFACTURER'S SOLE WARRANTY APPLICABLE TO THE PRODUCT. ANY OTHER CLAIMS FOR DAMAGE OR LOSS DIRECT, INDIRECT OR CONSEQUENTIAL, WHATEVER THE CAUSE THEREOF, ARE EXPRESSLY EXCLUDED FROM THE WARRANTY.

EXCEPT AS PROVIDED FOR IN LAW, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF A PARTICULAR PURPOSE.

