



Due to its excellent resistance to outdoor exposure, ageing, and yellowing, coupled with superior toughness and rigidity, ASA is suitable for a range of external applications where weatherability and durability are of paramount concern.

Benefits

- Excellent weatherability
- Superior impact resistance
- Easily thermoformed
- High rigidity

Applications

- Automotive, boat, and truck panels
- Outdoor furniture
- Telephone casings/handsets
- Lawn Mower panels
- Letter Boxes
- Garden Fittings
- Signage

Dimensions

ASA is a non-stock item and can be supplied to a maximum width of 1550mm x any length subject to handling, transport, and quantity.
Thickness range from 1.5 - 6mm.



Colors & Finishes

- Haircell
- Smooth
- Stipple
- Sandblast
- Leathergrain

All other colors are available on application.

Product Data

ASA Properties

Typical Properties	Test Method	Units	ASA 306 UV	ASA 302 UV
IZOD Impact (12.7 x 3.2mm, notched)	ASTM D256	J/m	300	275
Tensile Strength at 5 mm/min (12.7 x 3.2mm)	ASTM D638	MPa	40	47
Tensile Modulus at 5 mm/min (12.7 x 3.2mm)	ASTM D638	MPa	2000	
Flexural Strength at 1.3mm/min (12.7 x 3.2mm)	ASTM D790	MPa	65	76
Flexural Modulus at 1.3mm/min (12.7 x 3.2mm)	ASTM D790	MPa	2100	2450
Heat Deflection Temp. (12.7 x 12.7 x 127mm, 1.82 MPa)	ASTM D648	°C	88	89
Coefficient of Linear Thermal Expansion	ASTM D696	Cm/cm/°C	9.5 x 10 ⁻⁵	9.5 x 10 ⁻⁵
Vicat Softening Point (1 kg)	ASTM D1525	°C	105	104
Glow Wire Test Pass Temperature (1.57mm)	AS 2420	°C	550	550
Specific Gravity	ASTM D792	-	1.05	1.06
Rockwell Hardness	ASTM D785	R	90	100
Mould Shrinkage	ASTM D955	%	0.5 3 0.2	0.6 30.2
	Test Method	Units	797 SE UV	776 SE UV
IZOD Impact (12.7 x 3.2mm, notched)	ISO 180/1A	KJ/m ²	30	15
Tensile Strength at 5 mm/min (12.7 x 3.2mm)	ISO 527-2	MPa	42	47
Tensile Modulus at 5 mm/min (12.7 x 3.2mm)	ISO 527-2	MPa	2000	2200
Flexural Strength at 1.3mm/min (12.7 x 3.2mm)	ISO 178	MPa	60	65
Flexural Modulus at 1.3mm/min (12.7 x 3.2mm)	ISO 6721-2	MPa	730	800
Heat Deflection Temp. (12.7 x 12.7 x 127mm, 1.82 MPa)	ISO 75-2	°C	95	96
Coefficient of Linear Thermal Expansion				
Longitude. (23-80)°C	DIN 53752	10 ⁻⁵ K	8-11	8-11
Vicat Softening Point (1 kg)	ISO 306	°C	104	104
Specific Gravity	ASTM D792	-	1.1	1.1

Tolerances

All dimensions are measured at 22 - 24°C

Physical Properties	Length	Width	Thickness
Sheet length up to 1.5m	+3/-1.5mm	+1.5/-1.5mm	35%
Sheet length 1.5m to 4m	+10/-0mm	+5/-0mm	35%
Special sizes over 4m	+20/-0mm	+5/-0mm	35%

These figures report reliable and accurate information to the best of our knowledge, however, guarantees cannot be given due to the conditions of use being beyond our control. Sheeting applications should be considered on their merits and, if in doubt, contact YPP.