

## TECHNICAL SPECIFICATION

### Sign-Flex Traffic Safety Sign Blanks

#### Definition

The **Sign-Flex Traffic Safety Sign Blanks** are a unique high impact resistant flexible sign which can be attached to any post or surface type placement. They are capable of withstanding repeated impacts and wheel-overs in all directions.

#### Durability & Weathering Resistance

The **Sign-Flex Traffic Safety Sign Blanks** are capable of retaining a minimum 95% of their appearance and physical properties for at least ten years when exposed to the extremes of weather conditions.

**Testing has proven that there is no change in physical properties when subjected to temperatures as low as -100 deg. C to as high as +120 deg. C**

#### Material

The **Sign-Flex Traffic Safety Sign Blanks** are manufactured from a specially formulated Polycarbonate compound. The precision cuts are all **Radiussed**, eliminating any sharp edges and corners.

**Complies to AS 1743**

#### Typical Properties

<b>PHYSICAL</b>	<b>TEST METHOD</b>	<b>TYPICAL VALUES</b>
Hardness	ASTM D-785	70 - 90
Refractive index	ASTM D-542	1.59
<b>MECHANICAL</b>		
Tensile Strength	ASTM D-638	58.8 – 68.6 Mpa
Elongation	ASTM D-638	90 – 140 %
Tensile Modulus	ASTM D-638	2400 Mpa
Flexural Strength	ASTM D-790	80.5 – 95.2 Mpa
Flexural Modulus	ASTM D-638	2400 Mpa
Compressive Strength	ASTM D-695	73.5 – 88.2 Mpa
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<b>THERMAL</b>		
Temperature of deflection under load	ASTM D-648	128°C
Vicat softening temperature	ISO 306	147°C
Continuous use temperature		120°C
Combustibility	ASTM D-635	Self Extinguishing
Coefficient of linear thermal expansion	ASTM D-696	0.7

#### Impact Resistance

The **Sign-Flex Traffic Safety Sign Blanks** are manufactured in 3mm, 4.5mm & 6mm thick sheets.

They are virtually unbreakable with 30 times the impact strength of Acrylic (Perspex)

#### Finish and Colour

All faces of the **Sign-Flex Traffic Safety Sign Blanks** are smooth and free of any sharp edges and come in a standard colour of Platinum Grey. Available with and without Reflective Sheeting.