

5MM FLEXIBLE PLASTIC (PAGE 1/2)

TECHNICAL SPECIFICATIONS

EDFP1400S0D1 / EDFP1400S0D2

DIMENSIONS

Overall width (facing traffic)	105mm
Curvature	20mm
Thickness	5mm
Total Length	1400mm
Recommended exposed length above ground	1000mm (Victoria - 1050mm)
Shape	'C' channel

DEFINITION

The 5mm Flexible Plastic post is a unique flexible delineated guide post which is easily installed in most areas with the aid of the Ezy-Drive Installation Driving Kit. It is capable of withstanding repeated collisions by vehicles in both directions with minimal damage to the post or vehicle.

MATERIAL

Manufactured from specially formulated high impact UV stabilised top quality, rigid PVC and is recyclable.

DURABILITY

The 5mm Flexible Plastic post is capable of retaining a minimum of 85% of its colour, appearance and physical properties for at least five years when exposed to the extreme weather conditions throughout Australia, New Zealand and the USA.

COLD RESISTANCE

Two tests were carried out to determine the post's ability to resist cold:

- The 5mm Flexible posts have been conditioned overnight in ambient conditions not exceeding 2°C and proved capable of straightening themselves instantly when bent for each of the 4 bends. The tests were conducted at ambient temperature of 1°C.
- A steel ball weighing 1kg was dropped from a distance of 1500mm through a vertical frictionless guide to impact the surface of the post, which was in a horizontal position beneath the guide. The test was repeated 5 times and was concentrated near the middle of the post. The tests were conducted in a continuing ambient temperature of 1°C.

HEAT RESISTANCE

The 5mm Flexible posts have been conditioned in an oven for 2 hours at 62°C and proved capable of straightening itself within 30 seconds when bent at 90° for each 4 bends. The tests were completed within 2 minutes of removal from the oven.

FINISH & COLOUR

All surfaces of the 5mm Flexible Plastic post have a smooth opaque white finish and can generally be cleaned repeatedly.



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PHYSICAL PROPERTIES

Tensile Strength	550kg / sq. cm at 23°C
Thermal Expansion	Degrees C in order of 45 x 10.6 over a 55°C temperature movement the 5mm Flexible Plastic post will have an expansion / contraction of 2.5mm per metre
Compression Strength	630kg / sq. cm
Softening Point	80°C
Specific Gravity	1.45
Flammability	Material is self-extinguishing and will not support combustion when the source of flame is removed

FIELD RIGIDITY TESTING

The following tests have been conducted:

- Dynamic - The 5mm Flexible Plastic posts have been observed not to deflect more than 75mm from the upright position nor oscillate unduly under a gusty wind load at 50kph.
- Static - A 1kg load was applied at right angles and centrally to the top of the post in its weakest direction. The post did not deflect more than 75mm from its rest position.

GROUND WATER RESISTANCE

The 5mm Flexible Plastic posts are totally impervious to water regardless of ph. value, or duration of immersion.

IMPACT RESISTANCE

The 5mm Flexible Plastic posts was subjected to 10 head-on impacts into traffic, at speeds of 100kph and 5 impacts at an angle of 70° to the traffic at speeds of 90kph. The post remained capable of self-erecting to vertical and remained serviceable after these tests.

HYDRO CARBON RESISTANCE

The 5mm Flexible Plastic post have been totally immersed in commercial grade petrol for periods of one hour with no change in appearance or properties.

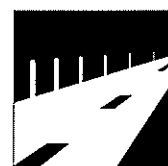
FIRE RESISTANCE

The 5mm Flexible Plastic posts have been tested for 2000 seconds (33 mins), supported 60mm below a 2000 watt silica rod element. The post did not ignite or show any trace of discolouration.

DELINEATORS

5mm Flexible Plastic posts can be fitted with delineators complying with ASI906.01 and all relevant Australian standards. It can also be driven into the ground with delineators attached.

The 5mm Flexible Plastic Post complies with all the requirements of Transport SA Master Road Works Specification Section 240, sections 2.3, 2.5, 2.6, 2.7, 3.1, and 3.2. Transport SA's independent test report is available on request.



EZY-DRIVE
ROADSIDE POST PRODUCTS