

PRODUCT CODE: C220001

POLYPLEX 914 is a medium reactivity, pre-promoted, isophthalic, unsaturated polyester resin dissolved in styrene. It has been specifically designed and refined for Cured in place pipe (CIPP) relining applications. The resin is thixotropic, shows a long initiated pot life at room temperature and rapid cure at elevated temperatures.

FEATURES

- Rapid cure at elevated temperatures
- Long catalysed pot life at room temperature
- Excellent hydrolysis resistance

BENEFITS

- Positive cure achievable in CIPP applications
- Suitable for operations where delays occur between pre-impregnation of CIPP liners and pipeline installation
- Cured resin suitable for continuous water contact in service

SUGGESTED USE

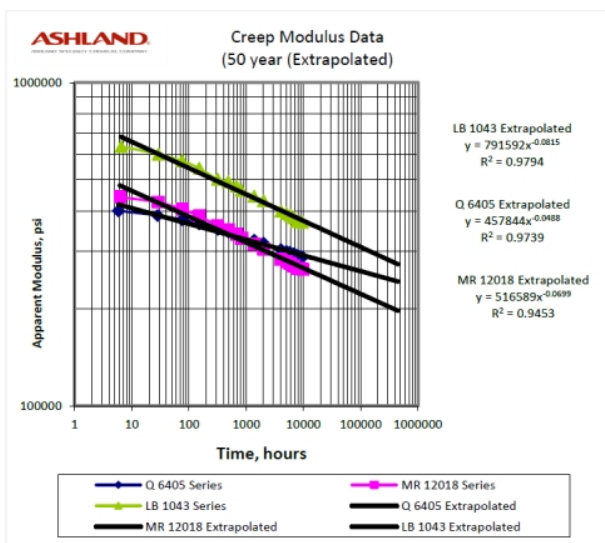
Cured in Place Pipe (CIPP) applications.

RECOMMENDED CATALYST

Perkadox 16 (or equivalent) in addition to Tertiary Butyl Perbenzoate

ADDITIONAL INFORMATION

Polyplex 914 is produced under licence to Ashland USA. The resin is based on Ashland's MR12590 formulation, which is also the base for the MR12018 and LB1043 resin series referred to in the graph below. This graph indicates compliant Flexural Creep Modulus data for this family of resins – via extrapolation to verify an expected 50 year calculated design life span.



TYPICAL LIQUID RESIN PROPERTIES @ 25°C

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	Hazy yellow liquid	
Viscosity	7000 – 10000 cP 1500 - 2800 cP	Brookfield LV sp.4/5 rpm Brookfield LV sp.4/50 rpm
Geltime (60°C) – SPI, Time (50 - 65°C)	15 – 20 minutes	60°C - 100g resin + 1 g Perkadox 16 + 0.5g TBPB
Catalysed Stability (25°C)	48 hours minimum	100 grams resin, 1 g Perkadox 16 + 0.5g TBPB
Shelf Life	6 months	When stored in original closed container in the shade

*Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

TYPICAL CAST RESIN PROPERTIES (FULLY POSTCURED CASTINGS)

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40 - 45	Barcol (GYZ 934-1) EN 59
Volume Shrinkage	7 – 8 %	ISO 3521
Tensile Strength	60 - 65 Mpa	ISO R527
Tensile Elongation	2.0 – 2.5 %	ISO 178
Flexural Modulus	3.4 – 3.7 GPa	ISO 178

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, polyester resins should be stored in closed containers, away from heat sources and sunlight. The resin should be stored away from all sources of ignition. Stored resin quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis. Prolonged storage, or unfavourable storing conditions, may cause separation, therefore agitation of the resin before use is recommended.

STANDARD PACKAGING

Mild steel drums (225kg)

Always refer to the MSDS before use.