



# Summit Chemicals Pty. Ltd.

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COMMITMENT TO THE VERY BEST IN THE COMPOSITE FRP INDUSTRY

## TECHNICAL DATA SHEET

Revision Date: March 2000

**PRODUCT GROUP: QL1271 CLEAR CASTING RESIN**

**PRODUCT CODE: QL1271**

**PRODUCT INFORMATION:**

Polymer Chemicals QL1271 Clear Casting Resin is a medium viscosity, resilient, orthophthalic unsaturated polyester resin designed for the production of decorative casting where excellent colour and clarity are essential to the finished product.

QL1271 Clear Casting Resin is supplied prepromoted for room temperature curing, and although it is pale green in solution, it becomes water clear on curing with the addition of MEKP Catalyst.

Polymer Chemicals QL1271 Clear Casting Resin has the following performance characteristics:

Fast Cures.  
High Gloss.  
Good weatherability.  
Excellent colour.

For thin sections or small casting 1% MEKP catalyst is used. For thicker sections it may be necessary to lower this catalyst addition rate to 0.5% and cast in layers to help reduce exotherm and the possibility of cracking.

**PHYSICAL PROPERTIES:**

Appearance:	Pale green colour change resin solution.
Viscosity	
Brookfield LVT 3/60rpm:	800 - 900 cps. @ 25 Deg. C.
Styrene Monomer Content:	33 - 36%
Specific Gravity @ 25 Deg. C.:	1.14 - 1.16 gm./cc.
Acid Value:	15 -25 mg. KOH/gm.
Geltime, 100gm. mass @ 25 Deg. C., 1% MEKP Butanox M60:	16 - 18 minutes
Storage life @ 25 Deg. C.:	6 months in sealed container.

**CURED RESIN PHYSICAL PROPERTIES:**

Water Absorption - 24 hours @ 25 Deg. C.:	0.19%
Tensile Strength:	55 MPa.
Elongation at Break:	2.50%
Flexural Strength:	100 MPa.
Heat Deflection Temperature @ 1.82 MPa Load:	60 Deg. C.
Barcol Hardness - GY2J934-1:	45

**HAZARD CLASSIFICATION:**

Chemical Composition:	A solution of unsaturated polyester resin in styrene monomer.
Class:	3.2 Flammable Liquid HFP.
Label:	3.
Pack Code:	III
UN Number:	1866
Hazchem Code:	3 [Y]
Flash Point:	32 Deg. C.

**WARRANTY:**

Polymer Chemicals Australia Pty. Ltd. and Daystar Australia Pty. Ltd. warrants that this product conforms to the product description contained herein. No other guarantee or warranty is expressed or implied, including warranties of merchantability or fitness for a particular purpose. Polymer Chemicals Australia Pty. Ltd. and Daystar Australia Pty. Ltd. shall not be liable for incidental, consequential, or other damages resulting from user negligence, breach of warranty, or any other theory arising out of the use or handling of this product. End users are at all times encouraged to first conduct their own tests on the product to verify its suitability for their intended use.