



CRYSTIC® 1035PALSE

polyester resin



Quality
Endorsed
Company
ISO 9002 LIC. 149
Standards Australia

MSDS Code: G

CRYSTIC® 1035PALSE is a general purpose, orthophthalic, low styrene-emission resin, designed for spray or hand lay-up.

FEATURES AND ADVANTAGES

- ✓ Fast wet-out and easy to roll out
- ✓ Pre-promoted and thixotropic
- ✓ Low styrene vapours for an improved working environment
- ✓ Meets EPA (Vic) requirements
- ✓ Excellent inter-laminar adhesion allowing for delays of up to 7 days between consecutive layers *
- ✓ Blue colour-change to confirm catalyst addition
- ✓ Approved by Lloyd's Register of Shipping

TYPICAL PROPERTIES

| 1. Liquid Resin | CRYSTIC® 1035 | |
|--|---------------|--------|
| | PALSE | PAWLSE |
| Reactivity at 25°C, 1% Butanox M-50 (minutes) | 35 | 25 |
| Brookfield Viscosity @ 25°C, Spindle 2/3rpm (Poise) | | 25 |
| Specific Gravity @ 25°C | | 1.11 |
| Stability in Dark | | |
| @ 20°C (months) | | 3 |
| @ 80°C (days) | | 1 |
| Monomer Content (%) | | 37-39 |
| Styrene Emission after 30 minutes @ 23°C (g/m ²) | | 8 |
| 2. Cured Resin Casting | | |
| Barcol Hardness | | 40 |
| Tensile Strength (MPa) | | 56 |
| Flexural Strength (MPa) | | 93 |
| Flexural Modulus (GPa) | | 3.5 |
| Specific Gravity | | 1.21 |
| Heat Distortion Temperature (°C) | | 74 |

Continued.....

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Amendment 2: January, 2003

Reissued: December, 2001 (KJT)
Expires: December 2004

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HUNTSMAN COMPOSITES is a division of HUNTSMAN CHEMICAL COMPANY AUSTRALIA PTY LIMITED ABN 48 004 146 338
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3. Cured Resin Laminate*

| | |
|-------------------------|-----|
| Tensile Strength (MPa) | 74 |
| Flexural Strength (MPa) | 145 |
| Flexural Modulus (GPa) | 6.4 |

*Laminate prepared with 3 layers 450 g/m² chopped strand mat glass reinforcement, with a resin to glass content of 2.5:1.

4. Gel Time Variation with Temperature and Catalyst

CRYSTIC® 1035PASLSE

| Temperature °C | % M-50 CATALYST | | | |
|-------------------|-----------------|-----|-----|-------|
| | 2.0 | 1.5 | 1.0 | 0.75♦ |
| 15 | 40 | 50 | 75 | N/R |
| 20 | 25 | 35 | 50 | 75 |
| 25 | 20 | 25 | 35 | 50 |
| 30 | N/R | 20 | 25 | 35 |
| 35 | N/R | N/R | 20 | 25 |

CRYSTIC® 1035PAWLSE

| Temperature °C | % M-50 CATALYST | | | |
|-------------------|-----------------|-----|-----|-------|
| | 2.0 | 1.5 | 1.0 | 0.75♦ |
| 15 | 30 | 35 | 45 | N/R |
| 20 | 20 | 25 | 35 | 45 |
| 25 | 15 | 20 | 25 | 35 |
| 30 | N/R | 15 | 20 | 25 |
| 35 | N/R | N/R | 15 | 20 |

Note: Gel times are in minutes N/R: Not Recommended

♦ Lloyd's Register requires a minimum catalyst level of 1.0%.



CRYSTIC® 1035PASLSE and CRYSTIC® 1035PAWLSE are approved under the Lloyd's Register for use in Marine hull laminates*. Certificate of approval renewal date 01/01/2004.

*Note: Lloyd's approved resins below the waterline for direct contact directly behind the gelcoat, include HETRON® 922PA.

*Lloyd's Register require that suitable control of the environmental conditions as per Lloyd's Register, 'RULES AND REGULATIONS FOR THE CLASSIFICATION OF SPECIAL SERVICE CRAFT, July 2002, Part 8.

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resin based glass mat