



Vibrin® G375LC Polyester Gelcoat

Product Information

Vibrin Polyester Gelcoat for Spray Applications

TYPICAL LIQUID PROPERTIES see back page

Typical Range

| | |
|---|---------------|
| Viscosity @77°F/25°C, RVF Brookfield #4 @4 RPM, cps | 11,000-17,000 |
| Thix Ratio (2:20 RPM) | 5.5-7.5 |
| Gel Time @77°F/25°C (1.5% of a 9% active oxygen MEKP), minutes | 11.5 - 17.5 |
| Exotherm Time, minutes | 12 - 20 |
| Exotherm Temperature, °C | 135 - 165 |
| Film Cure, minutes | 60 max |

TYPICAL CAST MECHANICAL PROPERTIES (2) See Back page*

| | | |
|---|---------|------------|
| Tensile Strength, psi | 9,794 | ASTM D 638 |
| Tensile Modulus, psi | 410,000 | ASTM D 638 |
| Tensile Elongation, % | 3.94 | ASTM D 638 |
| Flexural Strength, psi | 16,889 | ASTM D 790 |
| Flexural Modulus, psi/GPa | 470,000 | ASTM D 790 |
| Heat Distortion Temperature, °F/°C @ 264 psi | 178/81 | ASTM D 648 |



DESCRIPTION

Vibrin G375LC is a prepromoted, thixotropic, neopentyl glycol isophthalic polyester gelcoat designed for spray applications.

BENEFITS

- Superior water resistance and UV stability make this product an excellent choice for transportation and architectural applications.
- High gloss finish with superior cosmetics.
- Low HAP content allows product to meet composites MACT standards.
- Superior physical properties.
- Lower styrene emissions reduce occupational exposures.
- Improved transfer efficiency with less overspray generates less waste.
- No loss in processing characteristics over conventional products. Excellent spray characteristics with good leveling and resistance to sag.

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APPLICATION GUIDELINES

- A. All AOC thixotropic polyester gelcoats should be mixed well prior to use.
- B. MEKP levels should be kept between 1.0% and 2.5%.
- C. Gelcoat should not be applied at temperatures below 64°F/18°C.
- D. Recommend spraying 3 passes at 5-8 mils allowing a short flash time between passes.

MINIMUM STORAGE STABILITY

The G375LC gel coat is stable for three months from date of production when stored away from sunlight at no more than 77°F/25°C. Storage at elevated temperatures will reduce shelf life. After extended storage, some drift may occur in gel time or viscosity.

SAFETY

See appropriate Material Safety Data Sheet for guidelines.

ISO 9001:2000 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2000 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

FOOTNOTES

(1)

The gel times shown are typical but may be affected by catalyst type and level, and by gel coat, mold and shop temperature. Variations in curing characteristics can be expected between different lots of catalysts and at extremely high humidities. It is recommended that the fabricator check the curing characteristics of a small quantity of gelcoat under actual operating conditions prior to use.

(2)

Based on tests at 77°F/25°C and 50% relative humidity. All tests performed on unreinforced castings. Thixotropic components are excluded from casting samples. Castings prepared using 1.0% MEKP, 0.25% Cobalt, 6% post cured for 5 hours at 212°F/100°C.



Global Contacts

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Our recommendations should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.