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CRYSTIC®

SCOTT BADER

New

Crystic Crestapol® 1210 and 1212 Resin Systems

from Scott Bader with some outstanding properties

Crystic Crestapol® 1210

A tough low viscosity resin which has a very rapid cure and can be highly filled. Designed for use in Closed Mould applications. The system can be optimised to get very low cycle times of 6-7 minutes.

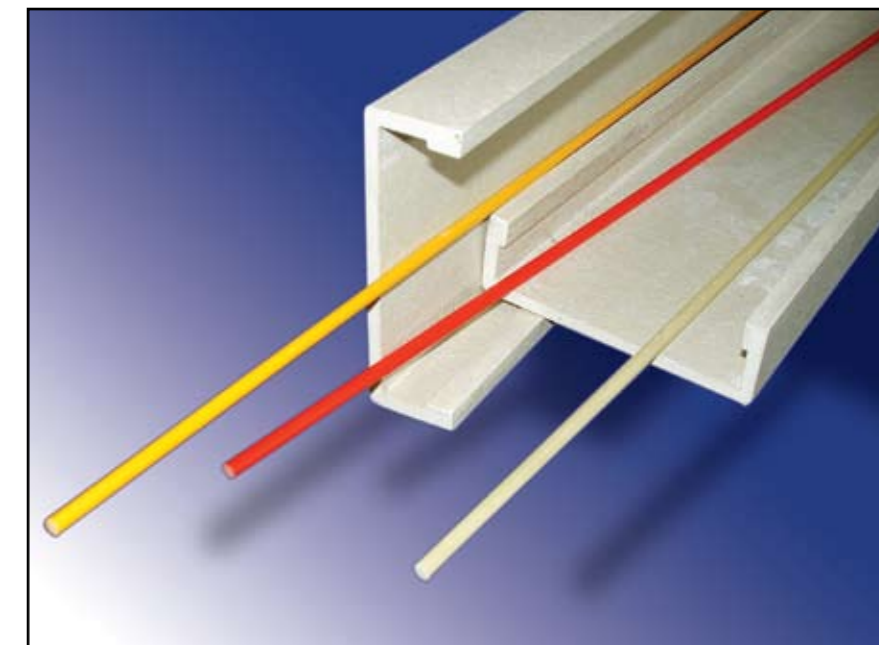
KEY FEATURES OF CRYSTIC CRESTAPOL® 1210 AND 1212

- VERY FAST CURE
- GELTIME FROM 2 - 60 MINS
- TOUGH RESIN MATRIX
- VERY LOW VISCOSITY
- EXCELLENT SURFACE FINISH



Crystic Crestapol® 1212

A tough, very low viscosity resin for closed mould and pultrusion. It can be heavily filled with ATH for very high fire, smoke and toxic fume performance.



From Technical and Production Excellence Comes Performance Excellence.

SCOTT BADER



Visit us at:

scottbader.com

CRESTOPOL/1212/10/08

www.scottbader.com

Crystic Crestapol® 1210

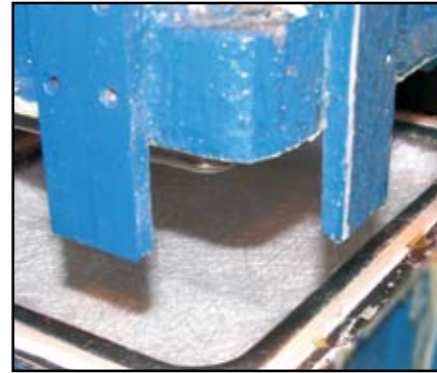
A closed mould application showing a cycle time of six minutes and 30 seconds



Mould



Reinforcement being laid in the press



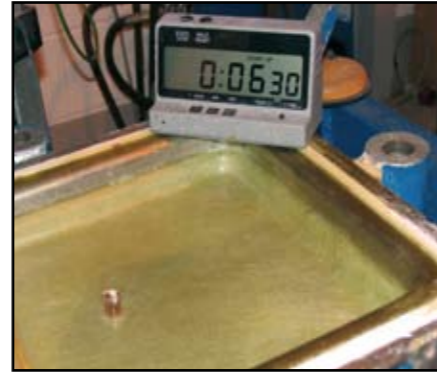
Press being closed



Resin being injected



Cycle time of 6 minutes 30 seconds



Cycle time of 6 minutes 30 seconds

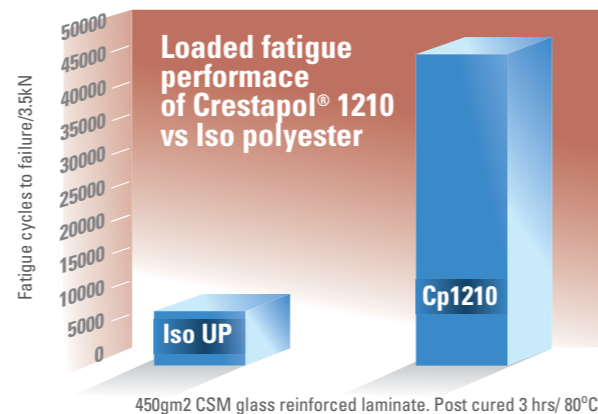
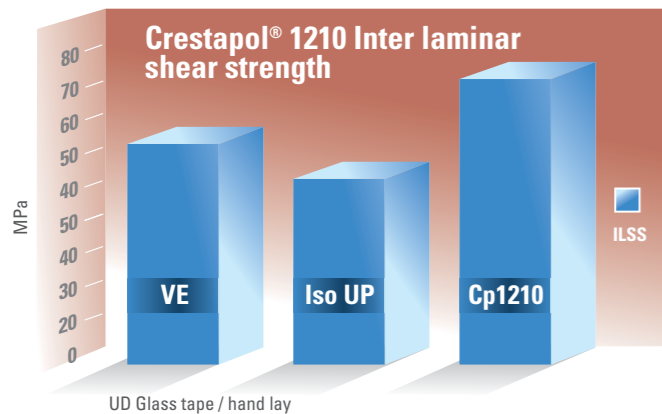


Laminate being trimmed

Typical Properties for Crestapol 1210

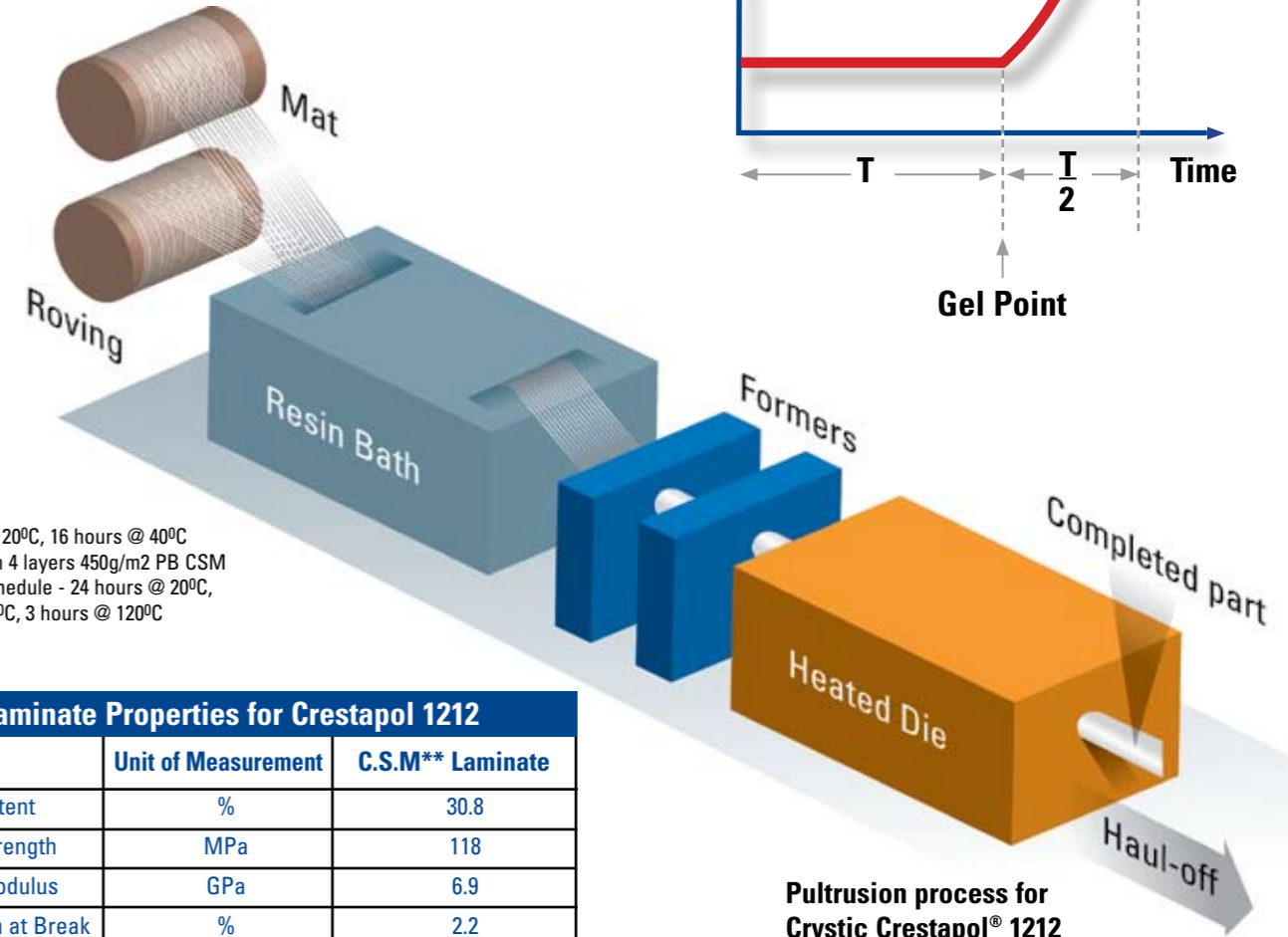
| Property | Unit of Measurement | Fully cured* resin |
|---|---------------------|--------------------|
| Barcol Hardness | | 47 |
| Deflection Temperature underload (1.8MPa)** | °C | 111 |
| Tensile Strength | MPa | 73 |
| Tensile Modulus | GPa | 3.7 |
| Elongation at Break | % | 2.5 |

| Property | Unit of Measurement | CSM** Laminate |
|---------------------|---------------------|----------------|
| Glass Content | % | 30.0 |
| Tensile Strength | MPa | 128 |
| Tensile Modulus | GPa | 8.0 |
| Elongation at Break | % | 1.7 |
| Flexural Strength | MPa | 211 |
| Flexural Modulus | GPa | 7.9 |



Crystic Crestapol® 1212

Very fast cure, high reactivity resin. After peak exotherm, resin is fully cured (no need for post cure). Time from geltime to peak exotherm, 5 to 10 minutes. Allows efficient, rapid manufacture of fully cured items. Compatible with polyester gelcoats.



* 24 hours @ 20°C, 16 hours @ 40°C
 ** Made with 4 layers 450g/m2 PB CSM
 ++ Curing schedule - 24 hours @ 20°C, 5 hours @ 80°C, 3 hours @ 120°C

| Laminate Properties for Crestapol 1212 | | |
|--|---------------------|------------------|
| Property | Unit of Measurement | C.S.M** Laminate |
| Glass Content | % | 30.8 |
| Tensile Strength | MPa | 118 |
| Tensile Modulus | GPa | 6.9 |
| Elongation at Break | % | 2.2 |
| Flexural Strength | MPa | 196 |
| Flexural Modulus | GPa | 5.7 |

** Made with 4 layers 450g/m2 PB CSM Curing Schedule - 24 hours @ 20°C, 16 hours @ 40°C

| Property | Unit of Measurement | Fully cured* Resin |
|---|---------------------|--------------------|
| Barcol Hardness | | 33 |
| Deflection Temperature under load (1.80MPa) | °C | 87 |
| Tensile Strength | MPa | 65 |
| Tensile Modulus | GPa | 2.7 |
| Elongation at Break | % | 5.1 |

