

CRESTAPOL[®] 1260

Introduction

Crestapol 1260 is a laminating resin for use in injection, RTM and vacuum infusion applications. Crestapol 1260 produces laminates with high strength and toughness with exceptional water and hydrolysis resistance.

Formulation

Crestapol 1260 should be allowed to attain workshop temperature before use. For curing at room temperature Crestapol 1260 requires the addition of a catalyst and an accelerator.

N.B. Catalysts and accelerators should not be mixed directly together, since they react with explosive violence.

The recommended catalyst for curing at room temperature is Trigonox 239, which should be added at 2% into the resin and thoroughly dispersed. The recommended accelerator is Accelerator G¹, which should be added at 2% into the resin and thoroughly dispersed.

Post Curing

Satisfactory laminates for many applications can be made using Crestapol 1260 by curing at workshop temperature. However, in common with all thermosetting polymers, optimum performance can only be achieved with a high temperature post cure. The typical cure time can be found inside our Crestapol[®] Information Guide.

Physical Data – Uncured

The following tables give typical properties of Crestapol 1260 when tested in accordance with BS2782.

| Property | Unit | Crestapol 1260 |
|--|-------------------|-----------------------------|
| Appearance | % | Clear Yellowish Brown Resin |
| Viscosity at 25°C 4500 sec ⁻¹ | Poise | 1.8 - 2.2 |
| Density at 25°C | gcm ⁻³ | 1.038 - 1.042 |
| Stability in The Dark at 20°C | Months | 6 |
| Geltime* | Minutes | 33 - 37 |

* at 25°C 2% Accelerator G, 2% Trigonox 239.

¹ Accelerator G - 1% solution of cobalt in styrene.

Physical Data – Cured: Pure Cast Resin Sheet

| Property | Unit | Fully Cured Resin |
|---|------|-------------------|
| Barcol Hardness ** | - | 38 |
| Deflection Temperature Under Load (1.80Mpa) † | °C | 109 |
| Tensile Strength ** | MPa | 67 |
| Tensile Modulus ** | GPa | 3.5 |
| Elongation at Break ** | % | 2.4 |

† Curing schedule – 24 hours at 20°C, 5 hours at 80°C, 3 hours at 120°C.

** Curing schedule – 24 hours at 20°C, 3 hours at 80°C.

Laminate Properties

| Property | Unit | C.S.M# Laminate |
|------------------------------|------|-----------------|
| Glass Content | % | 37 |
| Tensile Strength | MPa | 131 |
| Tensile Modulus | GPa | 9.6 |
| Elongation at Break | % | 1.8 |
| Flexural Strength | MPa | 259 |
| Flexural Elongation at Break | % | 3.4 |
| Flexural Modulus | GPa | 8.8 |

Made with 4 layers 450g/m² PB CSM.
Curing schedule – 24 hours at 20°C, 3 hours at 80°C.

Storage

Crestapol 1260 should be stored in the dark in the original container. It is recommended that the storage temperature should be less than 20°C, but should not exceed 30°C. Containers should be stored out of direct sunlight and away from other external sources of heat. Ideally, containers should be opened immediately prior to use.

Packaging

Crestapol 1260 is supplied in 25Kg and 200Kg containers.

Health and Safety

Please see separate Material Safety Data Sheet.

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