

Description: CM-Preg F-T27 200/1250 CP0041 45

The CP004 Systems are thermoplastic modified Epoxy systems with outstanding toughening properties. The resin system is mainly for industrial applications and suitable to carry high loads

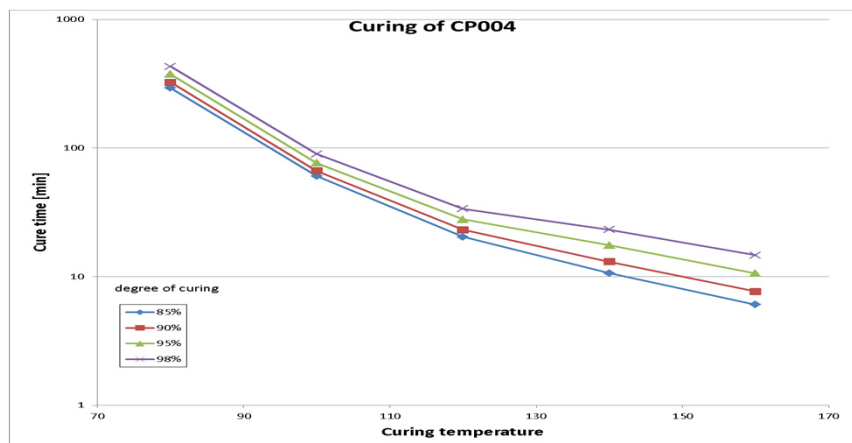
Benefits and Features:

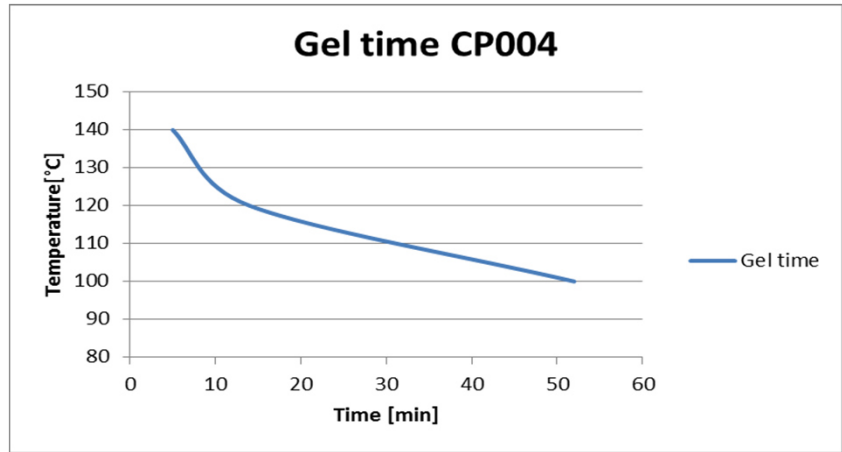
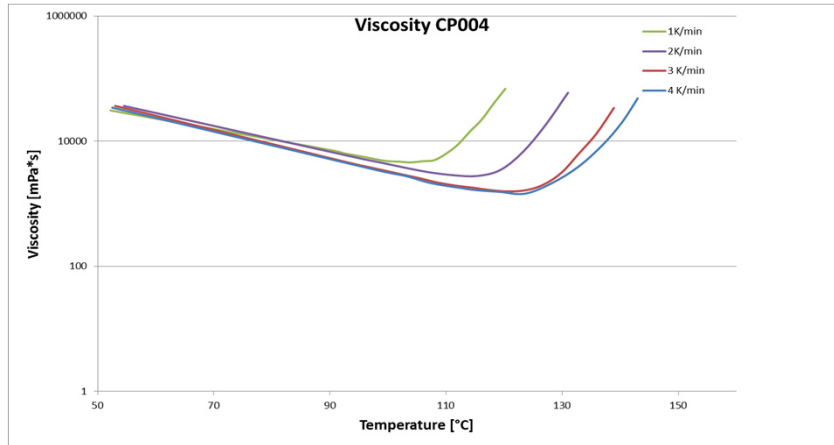
- Modified flow characteristics
- Good bonding properties
- Toughend System
- Suitable for a wide temperature range

Matrix Properties:

CP0041

| | | |
|---------------------------|------|-------|
| min. Viscosity | mPas | 1600 |
| T _g (1h/120°C) | °C | 130 |
| Color | | black |
| Specials | | n.a. |





Storage Life and Storage Conditions

60 Days @ 20 °C
 12 month @ -18 °C

Processing

Prepregs out of CP004 resin system are processable with all common technologies. The typical processing window is between 80°C and 165°C. The curing time varies from 15min up to 4hours depending on temperature

Prepreg Properties:

Textur: Epoxy Carbon Fabric Prepreg
Twill 2/2

| | | | | |
|-----------------------|------------------|-----|--------|-------|
| Fiber Areal weight: | g/m ² | DIN | 29971 | 200 |
| Resin Content: | % | DIN | 2557 C | 45 |
| Prepreg Areal Weight: | g/m ² | DIN | 2557 C | 364 |
| Width: | mm | | | 1.250 |

Laminate-Properties (Example - HT - Carbon fiber / 60 Vol%)

| Artikel Grade | | CM-Preg F Köper 2/2 | CM-Preg T UD |
|------------------|------------------|------------------------|-----------------|
| FAW | g/m ² | 245 | 420 |

| | | | | | |
|---------------------|-----|-----|-----------|------|------|
| Tensile Strength 0° | MPa | DIN | ISO 527 | 1100 | 1900 |
| E-Modulus 0° | GPa | DIN | ISO 527 | 70 | 135 |
| Flexural Strength | MPa | DIN | ISO 14125 | 1050 | 1250 |
| Flexural-Modulus 0° | GPa | DIN | ISO 14125 | 62 | 110 |
| ILSF | MPa | DIN | EN 2563 | 70 | 58 |

additional mechanical properties available on request

Important

This is not a specification. All information is believed to be accurate in relation to the performance, storage and other characteristics of the product without acceptance of liability. Users are held to do their own tests to check the suitability of the product for its particular purpose