

## TECAPAI CM XP403 green - halvfabrikat

### Kemisk beteckning

PAI (Polyamidimide )

### Färg

grön solid

### Densitet

1.41 g/cm<sup>3</sup>

### Fillers

unreinforced

### Huvud egenskaper

- bra slitenskaper
- utmärkt styrka och styvhet
- utmärkt dimensionsstabilitet
- mycket god termisk stabilitet
- utmärkt kemisk resistans

### Målindustrier

- elektronik
- flygplan och rymdteknik
- olje- och gasindustrin
- chemical and refinery industry
- processteknik

| Mekaniska Egenskaper             | parameter               | värde      | enhet                            | norm                 | anmärkning |
|----------------------------------|-------------------------|------------|----------------------------------|----------------------|------------|
| Elasticitetsmodul (dragprov)     | 1 mm/min                | 3600       | MPa                              | DIN EN ISO 527-2     | 1)         |
| Draghållfasthet vid brott        | 5mm/min                 | 122        | MPa                              | DIN EN ISO 527-2     |            |
| Brottförlängning                 | 5mm/min                 | 8          | %                                | DIN EN ISO 527-2     |            |
| Böjållfasthet                    | 2mm/min, 10 N           | 173        | MPa                              | DIN EN ISO 178       | 2)         |
| Elasticitetsmodul (böjningstest) | 2mm/min, 10 N           | 3600       | MPa                              | DIN EN ISO 178       |            |
| Kompressionsstyrka               | 1% / 2% / 5%            | 12/32/90   | MPa                              | EN ISO 604           | 3)         |
| slagstyrka (charpy)              | max. 7,5J               | 81         | kJ/m <sup>2</sup>                | DIN EN ISO 179-1eU   | 4)         |
| Kultrycks hårdhet                |                         | 221        | MPa                              | ISO 2039-1           | 5)         |
| Shore hårdhet                    | D scale                 | 85         |                                  | DIN EN ISO 868       |            |
| Värmeledningsförmåga             | parameter               | värde      | enhet                            | norm                 | anmärkning |
| Glasövergångstemperatur          |                         | 285        | °C                               | DIN EN ISO 11357     |            |
| termisk expansion                | 23-60°C, longitudinal   | 4,2        | 10 <sup>-5</sup> K <sup>-1</sup> | DIN EN ISO 11359-1;2 |            |
| termisk expansion                | 23-100°C, longitudinal  | 4,3        | 10 <sup>-5</sup> K <sup>-1</sup> | DIN EN ISO 11359-1;2 |            |
| termisk expansion                | 100-150°C, longitudinal | 4,7        | 10 <sup>-5</sup> K <sup>-1</sup> | DIN EN ISO 11359-1;2 |            |
| Elektriska egenskaper            | parameter               | värde      | enhet                            | norm                 | anmärkning |
| Dielektrisk styrka               |                         | 26         | kV/mm                            | ISO 60243-1          | 1)         |
| Dissipations faktor              | @ 1 MHz                 | 0,019      | Ω/sq                             | DIN 53 481           |            |
| Dissipations faktor              | @ 100 Hz                | 0,0055     | %                                | DIN 53 481           |            |
| Dielektrisk konstant             | @ 1 MHz                 | 3,5        |                                  | DIN 53 481           |            |
| Dielektrisk konstant             | @ 100 Hz                | 3,8        |                                  | DIN 53 481           |            |
| Övriga egenskaper                | parameter               | värde      | enhet                            | norm                 | anmärkning |
| Fuktpptagning                    | 24h / 96h (23°C)        | 0,4 / 0,57 | %                                | DIN EN ISO 62        |            |
| Brandklassning (UL94)            | 3,2 mm                  | V0         | -                                | -                    |            |

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