

## TECASINT 6022 black - Direkt formning

### Kemisk beteckning

PI (polyimid)

### Färg

Svart

### Densitet

1.47 g/cm<sup>3</sup>

### Fillers

grafit

Produktionsprocess: direktformning

### Huvud egenskaper

- mycket bra glid- och slitegenskaper
- Bra slitstyrka
- mycket hög termisk och oxidativ resistans
- hög termisk och mekanisk kapacitet
- högt krypmotstånd
- låg termisk expansion
- motstånd mot hög energi strålning
- känslig för hydrolys i högre termiska intervall

### Målindustrier

- maskinteknik
- flygplan och rymdteknik
- kryogenteknik
- vakuumenteknik
- bilindustrin

| Mekaniska Egenskaper             | parameter            | värde   | enhet                            | norm                 | anmärkning |   |
|----------------------------------|----------------------|---------|----------------------------------|----------------------|------------|---|
| Draghållfasthet                  | 50 mm/min            | 65      | MPa                              | DIN EN ISO 527-1     |            |   |
| Elasticitetsmodul (dragprov)     | 1 mm/min             | 5000    | MPa                              | DIN EN ISO 527-1     |            |   |
| Brottförlängning                 | 50 mm/min            | 1,7     | %                                | DIN EN ISO 527-1     |            |   |
| Böjhållfasthet                   | 10 mm/min            | 100     | MPa                              | DIN EN ISO 178       |            |   |
| Elasticitetsmodul (böjningstest) | 2 mm/min             | 5000    | MPa                              | DIN EN ISO 178       |            |   |
| Brottförlängning (böjtest)       | 10 mm/min            | 2,1     | %                                | DIN EN ISO 178       |            |   |
| Kompressionsstyrka               | 10 mm/min            | 210     | MPa                              | EN ISO 604           |            |   |
| Kompressionsstyrka               | 10mm/min, 10% strain | 155     | MPa                              | EN ISO 604           |            |   |
| tryckhållfasthet vid brott       | 10 mm/min            | 30      | %                                | EN ISO 604           |            |   |
| Shore hårdhet                    | Shore D              | 86      |                                  | DIN EN ISO 868       |            |   |
| Värmeledningsförmåga             | parameter            | värde   | enhet                            | norm                 | anmärkning |   |
| Glasövergångstemperatur          |                      | 283     | °C                               | -                    | 1)         | (1) DMA, maximum loss factor tan δ  |
| termisk expansion                | 50-200°C             | 2,4 / - | 10 <sup>-5</sup> K <sup>-1</sup> | DIN EN ISO 11359-1;2 | 2)         | (2) Thermal expansion XY/Z axis   |
| termisk expansion                | 200-300°C            | 4,4 / - | 10 <sup>-5</sup> K <sup>-1</sup> | DIN EN ISO 11359-1;2 | 3)         | (3) Thermal expansion XY/Z axis   |
| Övriga egenskaper                | parameter            | värde   | enhet                            | norm                 | anmärkning |   |
| Vatten absorption                | 24 h in water, 23°C  | 0,3     | %                                | DIN EN ISO 62        |            | (1) Corresponding means no listing at UL (yellow card). The information might be taken from resin, stock shape or estimation. Individual testing regarding application conditions is mandatory. |
| Brandklassning (UL94)            | corresponding to     | V0      |                                  | DIN IEC 60695-11-10; | 1)         |   |

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