

TECASINT 8001 yellow-brown - halvfabrikat

Kemisk beteckning

PTFE (polytetrafluoretylen)

Färg

ockra-brun

Densitet

1.88 g/cm³

Fillers

20% polyimid

Huvud egenskaper

- mycket bra glid- och slitegenskaper
- anti klister
- mycket bra elektrisk isolering
- hög seghet
- mycket bra UV och väderbeständighet
- bra kemisk resistans
- känslig för hydrolys i högre termiska intervall

Målindustrier

- kryogenteknik
- elektroteknik
- livsmedels eknik
- fixtur konstruktion
- medicinsk teknik
- textil industrin

| Mekaniska Egenskaper | parameter | värde | enhet | norm | anmärkning |
|--------------------------|---------------------|------------------|----------------------------------|----------------------|---|
| Draghållfasthet | 50 mm/min | 15 | MPa | DIN EN ISO 527-1 | |
| Shore hårdhet | Shore D | 65 | | DIN EN ISO 868 | |
| Värmeledningsförmåga | parameter | värde | enhet | norm | anmärkning |
| Glasövergångstemperatur | | - 20 | °C | DIN EN ISO 11357 | (1) Found in public sources. Individual testing regarding application conditions is mandatory. |
| Service temperatur | long-term | 250 | °C | - | 1) |
| termisk expansion | 50-200°C | 14.4 / - | 10 ⁻⁵ K ⁻¹ | DIN 53 752 | 2) |
| Specifik värme | | 1 | J/(g*K) | - | (2) Thermal expansion XY/Z axis |
| Värmeledningsförmåga | 40°C | 0.25 | W/(K*m) | ISO 8302 | |
| Elektriska egenskaper | parameter | värde | enhet | norm | anmärkning |
| Specifik volymr esistans | 23°C | 10 ¹⁸ | Ω*cm | DIN IEC 60093 | |
| Dielektrisk konstant | 10 kHz | 2.3 | | DIN IEC 60250 | |
| Övriga egenskaper | parameter | värde | enhet | norm | anmärkning |
| Vatten absorption | 24 h in water, 23°C | 0.70 | % | 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) |

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference dimensions and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com. Technical changes reserved.

Ensinger Sintimid GmbH
Ensingerplatz 1,
4863 Seewalchen, Austria

Tel: +43 7662 88788 0
Telefax: +43 (0) 76 62 88788-171
tecasint@ensingerplastics.com
www.ensingerplastics.com

Datum: 2023/09/26

Version: AD