

CHEMICAL NAME
DENSITY
WATER ABSORPTION 24/96h
COULEUR

PE UD UHMW

 0.93 g/cm³

< 0.1 mg

 Tivar® Cestidur

 Tivar® DS

THERMAL PROPERTIES

Melting temperature

135°C

Minimum service temperature

-200°C

Thermal conductivity at 23°C

0.40 W/Km

 Temperature of deflection under load method A 1,81 N/mm²

42°C

Max. Allowable service temperature in air

For short periods

120°C

Continuously for 5000/20 000 hours

80°C

Flammability

« Oxygen index »

< 20%

According to UL 94 (6 mm thickness)

HB

MECHANICAL PROPERTIES ÀT 23°C

Tension test:

Tensile stress at yield ISO 527

19 Mpa

Tensile strain at yield ISO 527

15 %

Tensile strain at break ISO 527

>50 %

Tensile modulus of elasticity ISO 527

700 Mpa

Compression test:

Compressive test at 1 / 2 / 5 % nominal strain

6 / 10 / 16 Mpa

Charpy impact strength- unnotched IOS 179

No Break

Charpy impact strength notched ISO 179

 130 KJ / m²

Ball indentation hardness ISO 2039-1

 31 N/mm²

Rockwell hardness ISO 2039-2

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ELECTRICAL PROPERTIES ÀT 23°C

Electric strength ISO 60243

45 kV/mm

Volume resistivity ISO 60093

 10¹⁴ Ohm.cm

Surface resistivity ISO 60093

 10¹² Ohm.cm

Relative permittivity at:

100 Hz ISO 60250

2.1

1 MHz ISO 60250

3.0

Dielectric dissipation factor tan at:

100 Hz ISO 60250

0.0004

1M Hz ISO 60250

0.0010

Comparative tracking index (CTI) ISO 60112

600

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