

CHEMICAL NAME	PE
DENSITY	0.955 g/cm ³
COLOR	■ □
WATER ABSORPTION 24/96h	0

THERMAL PROPERTIES

Melting temperature	126-130 °C
Minimum service temperature	-100 °C
Thermal conductivity at 23 °C	0,38 W/(K.m)
Temperature of deflection under load method A 1, 81 N/mm ²	45 °C
Max. Allowable service temperature in air	
For short periods	100 °C
Continuously for 5000/20 000 hours	80 °C
Flammability	
According to UL 94 (6 mm thickness)	HB

MECHANICAL PROPERTIES AT 23 °C

Tension test	
Tensile stress at yield ISO 527	28/- Mpa
Tensile strain at yield ISO 527	10 %
Tensile strain at break ISO 527	> 50 %
Tensile modulus of elasticity ISO 527	1300 Mpa
Compression test	
Compressive test at 1 / 2 / 5 % nominal strain	12 / 18.5 / 26.5 Mpa
Charpy impact strength- unnotched IOS 179	No Break
Charpy impact strength notched ISO 179	105 P kJ / m ²
Ball indentation hardness ISO 2039-1	45 N / mm ²
Rockwell hardness ISO 2039-2	-

ELECTRICAL PROPERTIES AT 23 °C

Electric strength ISO 60243	45 KV /mm
Volume resistivity ISO 60093	> 10 ¹⁴ Ohm.cm
Surface resistivity ISO 60093	> 10 ¹³ Ohm.cm
Relative permittivity at	
100 Hz ISO 60250	2.4
1 MHz ISO 60250	2.4
Dielectric dissipation factor tan at	
100 Hz ISO 60250	0.002
1 MHz ISO 60250	0,002
Comparative tracking index (CTI) ISO 60112	600

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