

CHEMICAL NAME
DENSITY
COLOR
WATER ABSORPTION 24/96h

PE HMW
0.96 g/cm³
0.01 mg



THERMAL PROPERTIES

Melting temperature	135 °C
Thermal conductivity at 23 °C	0,40 W/(K.m)
Temperature of deflection under load method A 1, 81 N/mm ²	44 °C
Max. Allowable service temperature in air	
For short periods	120 °C
Continuously for 5000/20 000 hours	80°C
Minimum service temperature	-100 °C
Flammability	
« Oxygen index »	< 20 %
According to UL 94 (6 mm thickness)	HB/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	4060 Mpa
Compression test	9 / 15 / 23 Mpa
Charpy impact strength- unnotched IOS 179	No Break
Charpy impact strength notched ISO 179	10.5 P kJ / m ²
Ball indentation hardness ISO 2039-1	-
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	0.00020
1 MHz ISO 60250	0.00020
Comparative tracking index (CTI) ISO 60112	600

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