

General information:

Low-density polyethylene is resistant to a lot of chemicals. Therefore especially suitable for cover plugs and caps. Due to its flexible consistence it is nearly unbreakable. It does not absorb moisture and is therefore very suitable for electrical insulation. Polyethylene cannot be glued and continues to burn after sparking.

Physical properties:

Property	Value	DIN
Density (gr/cm ³)	0.92	--
Tensile strength (MN/m ²)	10	53455
Elongation at break (%)	300	53455
Modulus of elasticity (MN/m ²)	180	53457
Notched impact strength (kJ/m ²)	--	53453
Ball indentation hardness (MN/m ²)	14	53456
Continuous operating temperature (max °C)	70	--
Volume resistivity (Ω.cm)	10 ¹⁷	53482
Dielectric dissipation factor tan: (10 ³ Hz)	0.0003	53483
Dielectric strength (MV/m)	60	53481
Coefficient of friction (compared with) (--)	0.17-1.5	--

Chemical resistance:

Resistance to			
Benzine	+	Weak lyes	+
Benzol	+	Strong lyes	+
Mineral oils	+	Weak acids	+
Vegetable oils	+	Strong acids	0

Important note:

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