

General information:

High-density polyethylene is resistant to a lot of chemicals. Therefore especially suitable for coverplugs and caps. The material is a little less flexible than low-density polyethylene but has a better scratch resistance. 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)	0.95	--
Tensile strength (MN/m ²)	24	53455
Elongation at break (%)	350	53455
Modulus of elasticity (MN/m ²)	1000	53457
Notched impact strength (kJ/m ²)	3	53453
Ball indentation hardness (MN/m ²)	25	53456
Continuous operating temperature (max °C)	80	--
Volume resistivity (Ω.cm)	10 ¹⁵	53482
Dielectric dissipation factor tan: (10 ³ Hz)	0.001	53483
Dielectric strength (MV/m)	53	53481
Coefficient of friction (compared with) (--)	0.25-0.3	--

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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