

General information:

PEEK is a high-quality thermoplastic with specific physical and chemical properties. Its melting temperature is 335°C. PEEK is resistant to nearly all organic and inorganic chemicals. However, it is not resistant to UV radiation.

Physical properties:

Property	Value	DIN
Density (gr/cm ³)	1.3	--
Tensile strength (MN/m ²)	91	53455
Elongation at break (%)	50-120	53455
Modulus of elasticity (MN/m ²)	--	53457
Notched impact strength (kJ/m ²)	88	53453
Ball indentation hardness (MN/m ²)	R126	53456
Continuous operating temperature (max °C)	180	--
Volume resistivity (Ω.cm)	4.9x10 ¹⁶	53482
Dielectric dissipation factor tan: (10 ³ Hz)	0.0004	53483
Dielectric strength (MV/m)	17	53481
Coefficient of friction (compared with) (--)	--	--

Chemical resistance:

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

Important note:

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