

General information:

Impact-resistant polystyrene is tough and quite break-proof. It is a very good electrical insulator as it does not absorb any moisture. It is often used amongst others for toy boxes, instruments etc.

Physical properties:

Property	Value	DIN
Density (gr/cm ³)	1.05	--
Tensile strength (MN/m ²)	55	53455
Elongation at break (%)	30	53455
Modulus of elasticity (MN/m ²)	2500	53457
Notched impact strength (kJ/m ²)	6.5	53453
Ball indentation hardness (MN/m ²)	100	53456
Continuous operating temperature (max °C)	80	--
Volume resistivity (Ω.cm)	10 ¹⁶	53482
Dielectric dissipation factor tan: (10 ³ Hz)	0.0004	53483
Dielectric strength (MV/m)	>40	53481
Coefficient of friction (compared with) (--)	0.5	--

Chemical resistance:

Resistance to

Benzine	0	Weak lyes	+
Benzol	-	Strong lyes	+
Mineral oils	0	Weak acids	+
Vegetable oils	+	Strong acids	+

Important note:

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