

ABS

Acrylonitrile Butadiene Styrene

Color: Natural or customized

Density:1.10g/cm³



...We pay more attention to after-sales!

Material Data Sheet

Mechanical Properties	Value	Unit	DIN/EN/ISO
Tensile strength at yield	42.5-44.8	MPa	527/D638
Elongation at yield	23-25	%	527
Modulus of elasticity in tension	2100	MPa	527/D638
Impact strength	2.46 - 2.94	KJ/cm	179/D256
Creep rupture strength after 1000hrs with static load	-	MPa	-
Time yield limit for 1% elongation after1000hrs	-	MPa	-
Frictional coefficient	0.5	-	-
Rockwell hardness	70	-	-

Thermal Properties	Value	Unit	DIN/EN/ISO
Glass transition temperature (TG)	-	°C	53736
Crystalline melting point	170	°C	53736
Service temperature(short term)	85	°C	-
Service temperature(long term)	70	°C	53736
Coefficient of thermal expansion	100×10 ⁻⁶	m/(m*k)	53483/D696
Specific heat	1.6	J/(g*K)	-
Coefficient of thermal conductivity	-	W(k*m)	-

Electrical properties	Value	Unit	DIN/IEC
Surface resistivity	≥10 ¹³	Ω	60093
Volume resistivity	≥10 ¹⁴	Ω *cm	60093
Dielectric strength	>20	kv/mm	60243

Other properties	Value	Unit	DIN/EN/ISO
Water absorption @ saturation @ 23°C	0.4	%	62
Resistance to hot water , washing soda	Resistant	-	-
Resistance to weathering	No	-	-
Flammability(UL94)	HB	-	4589

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The following information corresponds with our current knowledge and indicates our products and possible applications; We cannot give a legally binding guarantee of certain properties or the suitability for a specific application, Existing commercial patents must be observed.

A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples, We reserve the right of technical alterations.