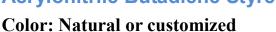
## **ABS**

## **Acrylonitrile Butadiene Styrene**



Density:1.10g/cm<sup>3</sup>



...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)	-	${\mathbb C}$	53736
Crystalline melting point	170	${\mathbb C}$	53736
Service temperature(short term)	85	${\mathbb C}$	-
Service temperature(long term)	70	${\mathbb C}$	53736
Coefficient of thermal expansion	100×10 <sup>-6</sup>	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 <sup>13</sup>	Ω	60093
Volume resistivity	$\geq 10^{14}$	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)	НВ	-	4589

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