

# Technical data sheet

## SUSTA ABS (Acrylonitrile-butadiene-styrene)

### Product characteristics

- Low moisture absorption
- High noise absorption
- High rigidity

### Typical field of application

- Vehicle construction
- Precision & electrical applications
- Sanitary engineering

Physical Properties	tested method	unit	value
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.04
Water Absorption	DIN EN ISO 62	%	0.3
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Mechanical Properties	tested method	unit	value
Yield Stress	DIN EN ISO 527	MPa	38
Elongation at Break	DIN EN ISO 527	%	50
Tensile Modulus of elasticity	DIN EN ISO 527	MPa	2,000
Notched Impact Strength (charpy)	DIN EN ISO 179	kJ/m <sup>2</sup>	25.0
Ball indentation hardness	DIN EN ISO 2039-1	Mpa	90
Shore hardness	DIN EN ISO 868	Scale D	74
Thermal Properties	tested method	unit	value
Melting temperature	ISO 11357-3	°C	0
Thermal conductivity	DIN 52612-1	W / (m * K)	0.17
Thermal capacity	DIN 52612	kJ (kg * K)	1.2
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	90
Service temperature, long term	Average	°C	-40 ... 80
Service temperature, short term (max.)	Average	°C	100
Heat deflection temperature	DIN EN ISO 74, method A	°C	-
Electrical Properties	tested method	unit	value
Dielectric constant	IEC 60250	-	3.1
Dielectric dissipation factor (50Hz)	IEC 60350	-	0.015
Volume resistivity	IEC 60093	Ω *cm	10 <sup>15</sup>
Surface resistivity	IEC 60093	Ω	10 <sup>14</sup>
Comparative tracking index	IEC 60112	-	600
Dielectric strength	IEC 60243	kV/mm	20
Compliance Properties	tested method	unit	value
FDA	-	-	No

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.