

## Technical Data Sheet

### SustaABS grey

ABS

#### Typical characteristics

- Low moisture absorption
- Good noise absorption properties
- High stiffness
- High cold impact strength
- High mechanical damping
- Good weldability
- good adhesive properties
- Good electroplatability
- Good thermoformability

#### Typical industries

- Vehicle Construction
- Electronics
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,07
Water absorption	DIN EN ISO 62	%	0,3
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
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	2000
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	25
Shore hardness	DIN EN ISO 868	scale D	74
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	-
Thermal conductivity	DIN 52612-1	W / (m * K)	0,17
Thermal capacity	DIN 52612	kJ / (kg * K)	1,20
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	90
Service temperature, long term	Average	°C	-40 ... 80
Service temperature, short term (max.)	Average	°C	100



	Test method	Unit	Guideline value
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		3,1
Dielectric dissipation factor (50 Hz)	IEC 60250		0,015
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$10^{15}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$10^{14}$
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	20

