

# SUSTARIN® C

## Product characteristics

- Good chemical resistance
- High dimensional stability
- Low moisture absorption

## Product applications

- Mechanical engineering
- Electrical industry
- Medical engineering

	Test method	Unit	Value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	67
Elongation at break	DIN EN ISO 527	%	30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2800
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	6
Shore hardness	DIN EN ISO 868	scale D	81
<b>Thermal properties</b>			
Crystalline grain melting range	ISO 11357-3	°C	165
Thermal conductivity	DIN 52612-1	W / (m * K)	0,31
Thermal capacity	DIN 52612	kJ / (kg * K)	1,50
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	110
Service temperature, long term	Average	°C	-50 ... 100
Service temperature, short term (max.)	Average	°C	140
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	110
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		3,8
Dielectric dissipation factor (50 Hz)	IEC 60250		0,002
Volume resistivity	IEC 60093	Ω * cm	10 <sup>13</sup>
Surface resistivity	IEC 60093	Ω	10 <sup>13</sup>
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	40