

### Technical Data Sheet

## Sustarin<sup>®</sup> C brown

POM-C

#### Typical characteristics

- Chemical resistant
- Low moisture absorption
- High abrasion resistance
- High tensile strength
- High stiffness
- Good impact strength
- Low creep tendency
- Good machinability
- Good electrical properties
- Good dielectric properties
- Good dimensional stability
- Good sliding properties

#### Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry
- Electronics
- Vehicle Construction
- Healthcare
- Food Industry
- Meat, Fish and Poultry Processing
- Bakery and Confectionery

	Test method	Unit	Guideline 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>			
Melting temperature	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



	Test method	Unit	Guideline value
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	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$10^{13}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$10^{13}$
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	40

