

## Technical Data Sheet



# Sustarin<sup>®</sup> C PIR natural

POM-C

### Typical characteristics

- Sustainable Plastic
- Chemical resistant
- High abrasion resistance
- Low moisture absorption
- 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

- Construction de machines et d'installations
- Pétrole et gaz
- Systèmes de convoyage et automatisation
- Industrie électronique
- Construction de véhicules
- Technique agricole
- Énergies renouvelables

### Sustainability

- Post-Industrial-Recycling material
- Recycling content 100%
- LCA available (ISO 14040/44)

	Test method	Unit	Guideline value
<b>General properties</b>			
Densité	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability	UL 94		HB/HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	65
Elongation at break	DIN EN ISO 527	%	30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2700
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	6
Shore hardness	DIN EN ISO 868	scale D	80
<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

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)



	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



[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

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