

## **Product Handling Information Sheet** Sustarin<sup>®</sup> C PIR black

1. Company				
Name/Address	Röchling Industrial Lahnstein SE & Co. KG			
	Sustaplast-Str. 1 • 56112 Lahnstein/Germany (DE) • Tel. +49 2621 693-0 info.lahnstein@roechling.com • www.roechling.com/industrial/lahnstein			
2. Product details				
Product/Article	Engineering semi-finished product			
Abbreviated terms	POM-C			
Material Characterisation	Thermoplastic			
Main Components	<ul><li> polyacetal copolymer</li><li> contains evtl. colour pigments</li></ul>			
Components Subject to labelling	-			
Classification according to REACh	Article			
Notes				

3. Product characteristics	
Form/State	• solid
Color	black
Odour	• odourless
Density	1,41
Melting range	165
Glass transition temperature	_
Thermal decomposition	>240°C
Flash point	-



3. Product characteristics		
Ignition temperature	>320°C	
Notes	-	

4. Danger warnings	
Special Risks For Mankind And The Environment	none
Notes	

5. Handling and Storage	
Handling	<ul> <li>Product can be worked with conventional machines and tools.</li> <li>Before machining the product should have room temperature and/or to be stored for min. 24h under normal climatic conditions.</li> </ul>
Storage	<ul> <li>horizontally</li> <li>dry</li> <li>protected against climatic influences</li> </ul>
Safety measures	Ensure compliance with applicable exposure limits.
Shelf Life	
Notes	-

6. Transport	
Transport	<ul> <li>Not classified as hazardous good under transport regulations.</li> </ul>
Finished Product Packing	-
Notes	

7. Fire – fighting measures	
Suitable extinguishing agents	• water
	• foam
	<ul> <li>dry extinguishing media</li> </ul>



7. Fire – fighting measures	
Potential combustion products	<ul> <li>carbon monoxide</li> <li>formaldehyde – formation of further fission and oxidation products depend upon the fire conditions (traces of any other toxic substances can not be excluded)</li> </ul>
Necessary protection equipment	<ul> <li>Fire fighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.</li> </ul>
Notes	Molten product should be cooled by water spray. Dispose fire debris and contaminated extinguishing water in accordance with local regulations.

8. Removal	
Recyclability	Check possibility of recycling.
EC Waste Catalog	According the European waste catalogue (EAK) the product is not classified as hazardous.
Waste Removal	Waste disposal by landfill or incineration in compliance with state and local regulations.
EC Waste Code	<ul> <li>12 01 05 plastics shavings and turnings</li> <li>07 02 13 waste plastic</li> </ul>
Notes	

9. Marking and Guidelines						
Marking in accordance with Guideline	EEC	not subject <sup>.</sup>	to labelling			
Notes		-				

10. Information about REACh	
Information about REACh	According to EC directive 1907/2006/EC (REACh), Article 3, no.3 our products are clearly defined as articles, exempt from registration. The EU regulation about chemicals no. 1907/2006 (REACh), which came into force 01 st of June 2007, prescribes Material Safety Data Sheets only for dangerous substances and preparations. According to REACh we are manufacturing articles and, therefore, not required to issue safety sheets.

#### 11. Other Information



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Other Information

All above mentioned information are based on our current state of knowledge and ensure no warranty of quality. Existing laws and regulations have to be observed by the recepient of our products on his own authority.





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## Industrial

# Technical Data Sheet Sustarin<sup>®</sup> C PIR black

#### **Typical characteristics**

- Sustainable Plastic
- 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**

- Mechanical Engineering
- Industry
- Oil and Gas
- Conveyor Technology & Automation
- Electronics
- Vehicle Construction
- Agriculture Industry
- Renewable Energies

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability	UL 94		НВ/НВ
Mechanical properties			
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
Thermal properties			
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

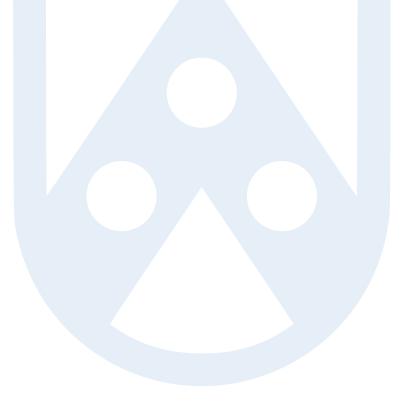
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	Test method	Unit	Guideline value
Service temperature, long term	Average	°C	-50100
Service temperature, short term (max.)	Average	°C	140
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	110
Electrical properties			
Dielectric constant	IEC 60250		3,8
Dielectric dissipation factor (50 Hz)	IEC 60250		0,002
Volume resistivity	DIN EN 62631-3-1	Ω*cm	10 <sup>13</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	10 <sup>13</sup>
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	40



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