

Product Handling Information Sheet

Sustarin[®] C PIR black

1. Company

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2. Product details

Product/Article	Engineering semi-finished product
Abbreviated terms	POM-C
Material Characterisation	Thermoplastic
Main Components	<ul style="list-style-type: none"> • polyacetal copolymer • contains evtl. colour pigments
Components Subject to labelling	-
Classification according to REACh	Article
Notes	-

3. Product characteristics

Form/State	<ul style="list-style-type: none"> • solid
Color	black
Odour	<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • Product can be worked with conventional machines and tools. • Before machining the product should have room temperature and/or to be stored for min. 24h under normal climatic conditions.
Storage	<ul style="list-style-type: none"> • horizontally • dry • protected against climatic influences
Safety measures	<ul style="list-style-type: none"> • Ensure compliance with applicable exposure limits.
Shelf Life	-
Notes	-

6. Transport

Transport	<ul style="list-style-type: none"> • Not classified as hazardous good under transport regulations.
Finished Product Packing	-
Notes	-

7. Fire – fighting measures

Suitable extinguishing agents	<ul style="list-style-type: none"> • water • foam • dry extinguishing media
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7. Fire – fighting measures

Potential combustion products	<ul style="list-style-type: none"> • carbon monoxide • formaldehyde – formation of further fission and oxidation products depend upon the fire conditions (traces of any other toxic substances can not be excluded)
Necessary protection equipment	<ul style="list-style-type: none"> • Fire fighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
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 style="list-style-type: none"> • 12 01 05 plastics shavings and turnings • 07 02 13 waste plastic
Notes	-

9. Marking and Guidelines

Marking in accordance with EEC Guideline	not subject 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.□
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11. Other Information



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 recipient of our products on his own authority.



Technical Data Sheet

Sustarin[®] 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 ³	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability	UL 94		HB/HB
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 ²	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 ⁻⁶ / K	110

	Test method	Unit	Guideline value
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
Electrical properties			
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	Ω	10^{13}
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	40

