

Product Data Sheet

SIDISTAR® R320

1. Product Description

SIDISTAR® R320 is a specially designed light-coloured process modifier consisting of spherical, submicron particles of amorphous silicon dioxide. The nature of the product allows excellent dispersion of these particles in the elastomer matrix. This leads to improved dispersion of all compound ingredients and a better flow, allowing higher extrusion speeds and smoother surface of the end product. The product is supplied in a densified, free flowing, form.

2. Application

SIDISTAR® R320 has been designed for usage in rubber compounds. Areas of use include flame retardant cable compounds; anti-vibration parts; hoses; roofing membranes; conveyor belts etc.

3. Packing

The product is available in big bags as well as in LDPE small bags.

Description	Big Bags	Small Bags
Bags on pallet	1 big bag	50 small bags
Net weight 1 bag	850 kg	20 kg
Net weight on pallet	850 kg (1874 lb)	1000 kg (2205 lb)
Gross weight	850 + 20 = 870 kg (1874 + 44 = 1918 lb)	1000 + 20 = 1020 kg (2205 + 44 = 2249 lb)
Bag dimensions (L x W x H)	106 x 106 x 142 cm (41.7 x 41.7 x 55.9 in)	73 x 46 x 20 cm (28.7 x 18.1 x 7.9 in)
Discharge spout Ø: Length:	42 cm (16.5 in) 70 cm (27.6 in)	
Bag material	Coated woven polypropylene fabric	LDPE bag
Cover / protection	LDPE shrink hood	LDPE shrink hood
Pallet	Fumigated wood	Fumigated wood
Pallet dimensions incl bags (L x W x H)	105 x 105 x 147 cm (41.3 x 41.3 x 57.9 in)	120 x 100 x 175 cm (47.2 x 39.4 x 68.9 in)

4. Storage Conditions

The product is recommended to be stored in a covered dry place, protected from direct UV light. Recommended storage temperature between +5 °C and +40 °C (+45°F and +104°F). It's important that the minimum temperature is > 5°C (9°F) above the dew point. Recommended relative humidity < 85%.

5. Shelf Life

We recommend that the product should be used within 2 years from production date.

6. Health, Safety and Environment

The product safety information, as well as REACH information, can be found on our website: www.sidistar.com.

7. Additional Information and contact

For further information about SIDISTAR®, a contact list can be found on our webpage www.sidistar.com. You are also welcome to send your questions to us by email: info@sidistar.com

8. Test Methods

Material data given in this product specification refer to analysis according to Elkem internal standard test methods, which are available upon request.

9. Version / Updates

The information on this product specification may be subject to change. Please check our website www.sidistar.com, for latest updates, and discard all older versions.

SIDISTAR®
THE INORGANIC POLYMER ADDITIVE

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10. Physical Data and Chemical Properties

Properties	Test Method	Unit	Limits:
SiO₂ <i>(Silicon dioxide, amorphous)</i>	ESM-LAB-18	%	96.0 – 99.0
C <i>(Carbon)</i>	ESM-LAB-05	%	≤ 0.20
Fe₂O₃ <i>(Iron oxide)</i>	ESM-LAB-17	%	≤ 0.25
H₂O <i>(Moisture, when packed)</i>	ESM-LAB-02	%	≤ 0.8
Cu <i>(Copper)</i>	ESM-LAB-17	ppm	≤ 100
Mn <i>(Manganese)</i>	ESM-LAB-17	ppm	≤ 300
Loss on Ignition <i>(L.O.I.) @ 950°C</i>	ESM-LAB-03	%	≤ 0.60
pH-value <i>(fresh)</i>	ESM-LAB-10		7.0 – 9.0
Bulk Density <i>(when packed)</i>	ESM-LAB-08	kg/m ³	400 - 700
Other Properties <i>(measured on undensified material)</i>		Unit	Typical Values**:
Specific surface area <i>(BET)</i>		m ² /g	18 - 25
Median particle size		µm	0.15
L-Value		%	≥ 90.0
Specific Gravity			2.2

** Typical values are for indicational use only, values are not part of Elkem Silicon Materials standard analysis.

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