

Product Data Sheet

SIDISTAR® R320U

1. Product Description

SIDISTAR® R320U 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 an undensified form.

2. Application

SIDISTAR® R320U has been designed for the usage in rubber compounds. Areas of use include flame retardant cable compounds; anti-vibration parts; hoses; roofing membranes etc.

3. Packing

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

Description	Big Bags	Small Bags
Bags on pallet	1 big bag	24 small bags
Net weight 1 bag	350 kg (772 lb)	15 kg (33 lb)
Net weight on pallet	350 kg (772 lb)	360 kg (794 lb)
Gross weight	350 + 20 = 370 kg (772 + 44 = 816 lb)	360 + 20 = 380 kg (794 + 44 = 838 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	Multilayer paper bag with PE liner
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)	115 x 115 x 125 cm (45.3 x 45.3 x 49.2 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 & Analysis

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
Coarse Particles <i>>45μ (325 mesh)</i>	ESM-LAB-09	%	≤ 0.10
pH-value <i>(fresh)</i>	ESM-LAB-10		7.0 – 9.0
Bulk Density <i>(when packed)</i>	ESM-LAB-08	kg/m ³	150 - 350
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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