

## Provisional Product Data Sheet SIDISTAR® XP320ST69

### 1. Product Description

SIDISTAR® XP320ST69 is a specially designed light-coloured process modifier consisting of surface modified spherical, submicron particles of amorphous silicon dioxide. The nature of the product allows excellent dispersion of these particles in the polymer 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 un-densified form.

### 2. Application

SIDISTAR® XP320ST69 has been designed for usage in elastomer compounds. This surface modified version is specifically designed for improved compatibility with sulphur based vulcanisation systems.

### 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	24 small bags
Net weight 1 bag	300 kg	15 kg
Net weight on pallet	300 kg (661 lb)	360 kg (794 lb)
Gross weight	320 kg (705 lb)	380 kg (836 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: 42 cm (16.5 in) Length 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 143 cm (41.3 x 41.3 x 56.3 in)	100 x 120 x 140 cm (39.4 x 47.2 x 70.9 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](http://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](http://www.sidistar.com). You are also welcome to send your questions to us by email: [info@sidistar.com](mailto: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](http://www.sidistar.com), for latest updates, and discard all older versions.

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### 10. Physical Data and Chemical Properties based on raw material

Properties	Test Method	Unit	Limits:
SiO <sub>2</sub> ( <i>Silicon dioxide, amorphous</i> )	ESM-LAB-18	%	96.0 – 99.0
C ( <i>Carbon</i> )	ESM-LAB-05	%	≤ 0,20
Fe <sub>2</sub> O <sub>3</sub> ( <i>Iron oxide</i> )	ESM-LAB-17	%	≤ 0.25
H <sub>2</sub> O ( <i>Moisture, when packed</i> )	ESM-LAB-02	%	≤ 0.8
Loss on Ignition (L.O.I.) @ 950 °C	ESM-LAB-03	%	≤ 0.60
Coarse Particles > 45 μ (325 mesh)	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 <sup>3</sup>	150 - 350
<b>Other Properties</b> ( <i>measured on undensified material</i> )			<b>Typical Values**</b>
Specific surface area (BET)		m <sup>2</sup> /g	18 - 25
Median particle size		μm	0.15
L-Value		%	≥ 90.0
Specific Gravity		g/cm <sup>3</sup>	2.2

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

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