

Product Data Sheet

SIDISTAR® T120

1. Product Description

SIDISTAR® T120 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 polymer matrix. This leads to improved distribution 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® T120 has been designed for usage in thermoplastics. Areas of use include flame retardant cable compounds; foamed PVC; deck board / sheets; wood-plastic composites etc.

The densified version is specifically designed for easier handling in higher viscosity polymer systems where a medium amount of shear energy is needed for full dispersion.

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 156 cm (47.2 x 39.4 x 61.4 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 |
| 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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