VENATOR

Product Data Sheet

TIOXIDE® R-FC5

TIOXIDE® R-FC5 pigment is an alumina surface treated hydrophobic titanium dioxide pigment offering rapid and excellent dispersibility in a large range of polymers in dry processing as well as in liquid plasticizers. TIOXIDE® R-FC5 pigment fine crystal and particle sizes position it in the group of blue undertone plastics grades.

Applications

TIOXIDE® R-FC5 pigment is particularly recommended for use in systems in which fineness of pigment dispersion in the polymer is the top priority: polyolefins, styrenics, engineering polymers, etc. TIOXIDE® R-FC5 pigment permits production of highly pigmented concentrates, such as polyolefin masterbatches. It can also be used in rubber and linoleum. TIOXIDE® R-FC5 pigment enables the manufacture of highly pigmented concentrates, e.g. 70% plasticizer preparations of all widely used liquid plasticizers.

Properties at a Glance

- Bluish undertone
- Good rheological (flow) properties and low dust generation
- Suitable for thermoplastics, thermosets and pigment preparations
- High scattering and lightening power
- Good dispersibility

Typical Properties

Titanium Dioxide classification	(DIN EN ISO 591-1) R2
TiO_2 content [%]	Minimum 97
Inorganic surface treatment	(Compounds based on:) Al
Organic surface treatment	Hydrophobic: polysiloxane
Color coordinate L* (PVC-P)(1)	Approx. 97
Color coordinate b* (PVC-P)(1)	Approx. 3.5
Rel. lightening power (PVC-P)(1)	Approx. 105
Bluish undertone Rz/Rx (PVC-P)(1)	Approx. 1.045
Fineness of grind [µm]	< 20
C.A.S No.	13463-67-7
Durability	Moderately durable
Specific gravity [g/mL]	Approx. 4.1

(1) According to DIN 53775
This data sheet includes the typical properties of this pigment. It is not a specification, although specifications are available.

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Titanium dioxide pigments

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Safety, Health and Environment

As for all fine powders, the handling of titanium dioxide pigments can give rise to airborne dust. Good industrial hygiene practice should be observed so as to avoid the generation and subsequent inhalation of dust. For more information refer to our material safety data sheet.

Food Contact

The subject is too wide to be adequately covered in a technical data sheet and customers should seek confirmation of compliance for each of the particular regulations they are interested in by contacting Venator.

Storage

The pigment should not be stored in outside areas exposed to the weather. All direct contact with moisture should be avoided. By storing the pigment correctly, its properties should not deteriorate with time. However to ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Packaging

Venator's titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

Contact Details

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