

LR-108

LR-108 pigment is an alumina treated rutile titanium dioxide pigment made by the sulfate process. It is specially designed for masterbatch and compounding applications.

LR-108 pigment disperses easily in polyolefins, with minimal effect on melt flow index, so that even masterbatch with high TiO₂ concentration can produce film with high opacity and whiteness.

LR-108 pigment is recommended for plastics applications that require high thermal stability. It is designed with a hydrophobic surface that acts as a barrier to help prevent the pigment from absorbing moisture from the air.

Recommended applications

Mastrbatch & compounds	Polyolefin & PVC film	Plastics with thermal stability
------------------------	-----------------------	---------------------------------

Key features

High heat stability	High opacity and whiteness	Low oil absorption	Low moisture absorption
Rapid and complete dispersion	Low reactivity with antioxidants	Excellent compatibility with plastic resins	

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
Crystal structure	Rutile	XRD
ISO 591 classification	R ₂	--
Chemical abstracts number (CAS)	13463-67-7	--
pH	7.0 – 9.0	ISO 787-9
TiO ₂ content	96.5 – 98.0%	ISO 597-1
Density	4.1g/cm ³	ISO 787-10
Average particle size	0.22µm	SEM**
Surface treatment	Alumina ; organic	--

Safety:

Good industrial hygiene practice should be used to avoid the generation of dust. Please refer to the material safety Data Sheet for more information on the handling of this product.

Storage:

This product should not be stored outside or exposed to weather. All direct contact with moisture should be avoided. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Packaging:

LR-108 pigments are available in 25kg compound paper bags and a range of flexible intermediate bulk containers.