



Ti-Pure™

TS-1510 Titanium Dioxide

Product Information

Product Description

Ti-Pure™ TS-1510 is a highly efficient rutile titanium dioxide pigment manufactured with a revolutionary processing technology. Ti-Pure™ TS-1510 was designed to significantly enhance the level of processing efficiency in plastics applications including POMB. Ti-Pure™ TS-1510 provides improved flowability, line productivity, energy, and labor efficiencies along with low-dusting that promotes safer handling and material efficiency. It is excellent for high temperature plastics applications requiring outstanding dispersibility and lowest possible volatility. The grade has the following general properties.

Table 1. Physical Properties

Titanium Dioxide, wt%, min.	97
Alumina, wt%, max.	1.7
Organic Treatment, wt%, carbon	0.2
Specific Gravity	4.2
Mean Particle Size, μm	0.29
pH (aqueous slurry)	8.5
Resistance (aqueous slurry), k ohm-cm, min.	2

Suggestions for Use

Ti-Pure™ TS-1510 is designed primarily for plastic applications. Ti-Pure™ TS-1510 provides high opacity with a neutral undertone (Figure 1).

Product Sustainability Designations:



Climate Impact



Resource Efficiency

Figure 1. Optical Properties

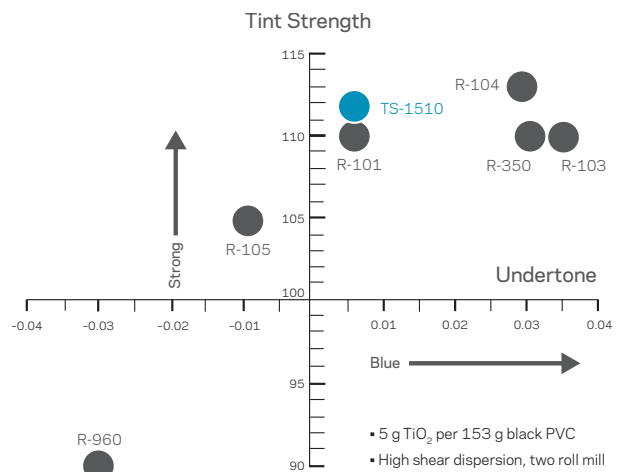
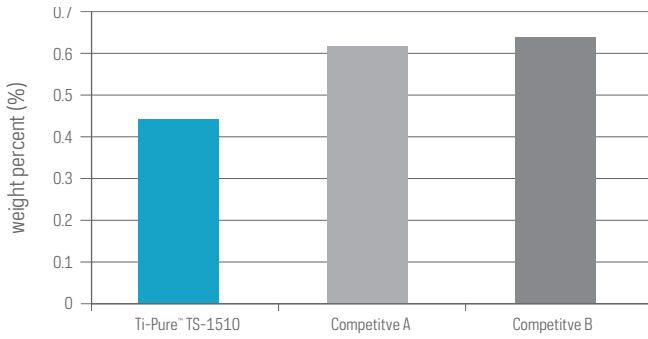


Table 2. General Properties

Opacity Strength	High
Undertone Tint	Neutral
Dispersibility in:	
Thermoplastics	Excellent
Plasticized Vinyl	Good
Plasticizers	Fair
Effect on Melt Flow	Minimal
Melt Compounding Operations	Excellent
Weathering Resistance	"Chalking" Grade in PVC Use

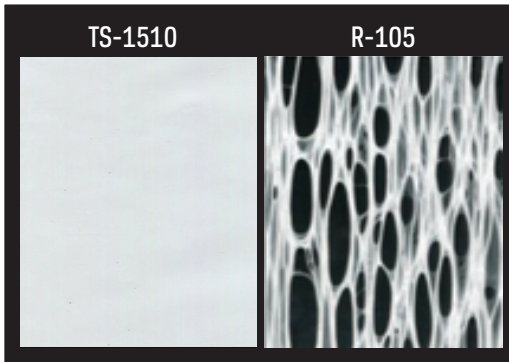
Ti-Pure™ TS-1510 has a low level of crystalline and surface adsorbed water and gives superior performance in high temperature polyolefin extrusion coating operations sensitive to lacing. **Figures 2 and 3.**

Figure 2. Ti-Pure™ TS-1510 Enables Higher Processing Temperatures



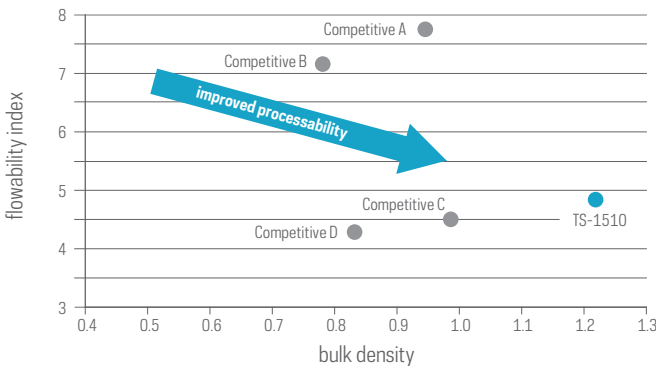
Thermogravimetric measurement of TiO₂ volatility

Figure 3. Ti-Pure™ TS-1510 Lacing Resistance Enables Thinner Films and Material Efficiency



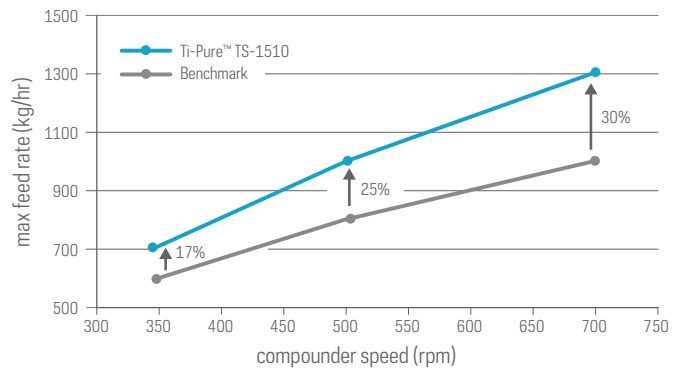
15% TiO₂ in Low Density Polyethylene Extruded at 316 °C (600 °F), 1.5–2 mil Thick

Figure 4. Ti-Pure™ TS-1510 Material Properties Unlock Processing Improvements



Simultaneous improvements in bulk density and flowability enable step change in processing performance

Figure 5. Ti-Pure™ TS-1510 for up to 30% Increase in Processing Rate



*Generated on a Farrel Continuous Mixer model CP550

Shipping Containers

Ti-Pure™ TS-1510 has a more efficient and smaller package that reduces required warehouse and line storage space. **Figure 6.**

Ti-Pure™ TS-1510 rutile titanium dioxide is available in a recyclable package:

- 2,000 lb (907 kg) flexible intermediate bulk containers.

For further information about this grade or to request a sample, please see the Ti-Pure™ web site.

Figure 6. 50% Reduction in Package Height for more Efficient Storage



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