

Product Information

Product Description

Ti-Pure[™] R-101 is a rutile titanium dioxide pigment manufactured by the chloride process. It is excellent for high-temperature plastics applications requiring outstanding dispersibility and lowest possible volatility. The grade is a fine, dry, white powder with 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[™] R-101 is designed primarily for plastic applications. Ti-Pure[™] R-101 provides high opacity with a neutral undertone (**Figure 1**).

The low level of surface treatment on Ti-Pure[™] R-101 gives it excellent dry blend dispersion. **Figure 2** demonstrates relative opacity strength of pigments for simple tumble blending versus high shear dispersion.



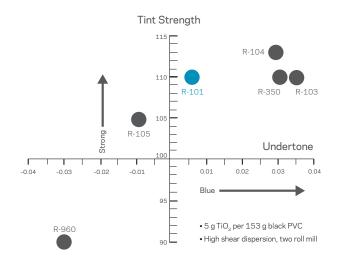
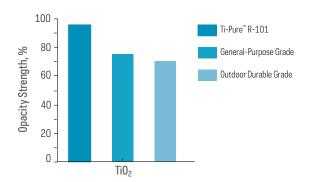


Table 2. General Properties

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



Figure 2. Dry Blend Dispersion Performance



A major advantage of Ti-Pure[®] R-101 is its low level of crystalline and surface adsorbed water. This characteristic gives superior performance in hightemperature polyolefin extrusion coating operations sensitive to lacing. The very low volatility of Ti-Pure[®] R-101 is reflected in **Figures 3** and **4**.

Shipping Containers

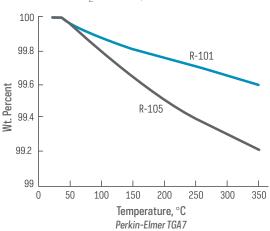
Ti-Pure[™] R-101 rutile titanium dioxide is available in two recyclable package types:

- 25 kg polyethylene bags
- 2,000 lb (907 kg) flexible intermediate bulk containers

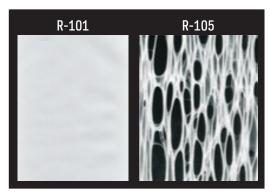
Ti-Pure[™] R-101 is listed with NSF International for use in plastic pipe products.

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









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

CAUTION: Do not use or resell Chemours[™] materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative. These products may not be directly added to food, pharmaceuticals, cosmetics, or cigarette papers/filters for tobacco products.

For medical emergencies, spills, or other critical situations, call (844) 773-2436 within the United States. For those outside of the United States, call (302) 773-1000. The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no liability in connection with any use of this information. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

NO PART OF THIS MATERIAL MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF CHEMOURS.

For more information, visit tipure.com

© 2020 The Chemours Company FC, LLC. Ti-Pure[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours[™] and the Chemours Logo are trademarks of The Chemours Company.

C-10424-4 (2/20)