## Ti-Pure<sup>™</sup> Grade Selection Guide for Plastics

Grade	R-101	R-103	R-104	R-105	R-350	R-960	TS-1510
Polymer System and Application							
Polyethylene/Polypropylene							
Compounding	•	•	٠		•		•
Injection Molding	•	•	•				
Blow Molding	•	•	•				
Blown Film	•	•	•		•		
Extruded Sheet	•	•	•		•		
High-Temperature Cast Film or Extrusion Coating	•		•				
Exterior, Semi-durable		•			•		
Exterior, Durable				•			
Liquid Colorants		•	•				
PVC							
Interior, Rigid					•		
Exterior, Chalking	•	•					•
Exterior, Non-chalking				•		•	
Flexible, Durable				•		•	
Plastisol		•					

ABS		٠		•	
Polystyrene	•		•		
Polycarbonate			٠		
Polyamide	•		•		
Polyester	•	٠	•		•
Biodegradable/Compostable			•	•	
Thermoset (PES)	•	•			

## • Highly Recommended

Lead-Stabilized Systems

Pipe

Grade Suitable for Application

1. For regulatory statements and voluntary certifications (food contact, NSF and others) please go to www.tipure.com/en/support/regulatory

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## Plastics Grades TiO2 Physical Properties

Grade	R-101	R-103	R-104	R-105	R-350	R-960	TS-1510				
Property											
TiO₂ wt%, min.	97	96	97	92	95	89	97				
Alumina, wt%, max.	1.7	3.2	1.7	3.3	1.7	4.0	1.7				
Silica, wt%, max.	N/A	N/A	N/A	3.5	3.0	6.5	N/A				
Organic Treatment	hydrophilic	hydrophilic	hydrophobic	hydrophobic	hydrophobic	N/A	hydrophilic				
Color CIE L*, min.	97.9	97.8	97.5	98.5	98.5	98.5	97.9				
Specific Gravity	4.2	4.1	4.2	4.0	4.1	3.9	4.2				
Median Particle Size, µm	0.29	0.22	0.22	0.31	0.22	0.35	0.29				
Vinyl Tint Strength	110	110	113	104	110	90	112				
Vinyl Undertone	0.005	0.035	0.030	-0.010	0.030	-0.030	0.005				
рН	8.5	6.5	N/A	N/A	N/A	7.4	8.5				
Resistance, min.	2.0	4.0	N/A	N/A	N/A	4.0	2.0				

Notes: Unless noted, values are typical. Resistance is reported as the minimum value in k chm-cm. Test methods used to determine the values reported are available from your  $TiO_2$  sales or technical services representative.





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