



DATA SHEETS

**R-980**

Titanium Dioxide

**TIPAQUE<sup>®</sup> R-980**

**R-980** is a rutile sulfate processed TiO<sub>2</sub> that offers superior durability with its crystal stabilization with aluminum. Surface treated with alumina and an organic compound, this product provides excellent tinting strength and is easy to disperse. As a slightly smaller medium particle size, R-980 is also associated with a unique bluish tone. It is a multi-purpose grade suitable in a wide range of applications from interior paints, to printing inks, and various kinds of plastics, including exterior rigid PVC where maximum durability is required.

### ■ Chemical and Physical Characteristics

	<b>R-980</b>	R-930
Particle Size (µm)	<b>0.24</b>	0.25
TiO <sub>2</sub> (%) Minimum	<b>93</b>	93
Oil Absorption (g/100g)	<b>19</b>	19
Post-Treatment	<b>Al, polyol</b>	Zn, Al

### ■ Dispersability

\* Long oil-alkyd

#### *Fineness Development (µm)*

Dispersing Time	10 min.	20 min.	30min
<b>R-980</b>	<b>10 ↓</b>	<b>not observed</b>	-
R-930	15	15	10

\* Flexible PVC resin system

### Visual Inspection of flexible PVC

R-980  
R-930

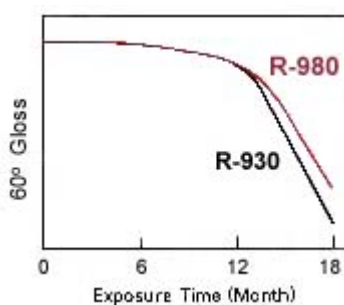
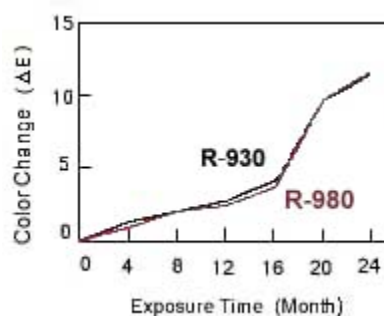
Excellent  
Fare

TiO2 content: 10PHC
Twin roll clearance: 0.4mm
Dispersion condition: 150°C x 3 min

## Durability

\* Rigid PVC stabilized w/ Pb-compound: 3 PHR

\* Alkyd-melamine stoving enamel, P/B=1/1



## Optical Properties

\* Rigid PVC resin system; White: 10 PHC

Gray: 2.2 PHC

		R980	R-930
Color	L	95.6	95.6
	b	3.2	3.3
Tinting Strength	L	41.1	41.1
	b	-1.0	-0.5

## Film Properties

\* Alkyd-melamine stoving enamel,  
P/B=0.5/1

		R980	R-930
Gloss (20° -20°)		82	81
Hiding Power (CR%)		86.7	86.9
Color	L	94.0	93.9
	b	0.2	0.4
Tinting Strength	L	50.5	50.4

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