



TIPAQUE[®] PFR209

TIPAQUE[®] PFR209 is medium particle size rutile type titanium dioxide pigment produced by the sulfate process and surface-treated with silica and alumina.

TIPAQUE[®] PFR209 is the suitable grade for lamination gravure ink and shows good performance for ink film properties and printing properties.

TIPAQUE[®] PFR209 shows superior opacity even after lamination due to the improvement dispersion in ink films, namely superior light scattering with the control of coarse particles.

< Chemical and Physical Characteristics >

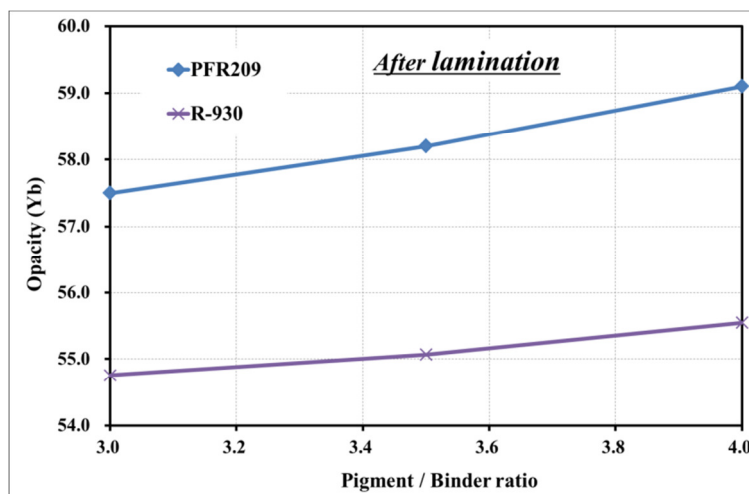
	PFR209	R-930
Particle Size (μm)	0.26	0.25
TiO ₂ (%)	89	93
Oil Absorption (g/100g)	22	19
Post-treatment	Si, Al, (Zn)*	Al, (Zn)*

*(Zn): dopant

< Ink Film Properties > (Polyurethane ink, P/B=4/1)

		PFR209	R-930
Hiding power (Y value)	Before lamination	64.4	60.9
	After lamination	59.1	55.5
Color	L	80.3	78.0
	(Before lamination on black substrate) b	-2.4	-2.1

< Relationship between Pigment Concentration and Opacity >



PFR209 higher opacity could reduce amount of TiO₂, i.e. it leads to the reduction of production cost.

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