

Permanent Orange G

Edition 16.05.2013

Colour Index:	Pigment Orange 13	Chem. Group:	Disazopyrazolone	CAS No.:	3 520-72-7
C.I.-No.:	21110	Standardization:	offset printing		

Technological properties

Permanent Orange G is an opaque disazopyrazolone pigment. It exhibits high colour strength, high gloss and good printing properties in all printing systems. Recommended for paste inks as well as for solvent- and water based packaging gravure and flexographic printing inks.

Physical Data

Density [g/cm³]	1.41
pH-value	---
Specific surface [m²/g]	38
Average particle size [nm]	130
Fineness of grind [µm]	---
Viscosity [Pa.s]	---
Oil absorption [ml/100g]	80

Fastness properties

Test medium	Staining of the test medium by:		
	Powder pigment	Print / draw-down	Change of the print
Solvent mixture	4	4	5
Ethanol	4-5	5	5
Ethyl acetate	3-4	4	5
MEK	3-4	4	4
Toluene	3-4	3-4	4
White spirit	4-5	5	5
DOP	4-5	5	---
Paraffine	4	5	---
Butter	---	5	---
Soap	---	5	4-5
Alkali	---	5	5
Acid	---	5	4
Heat stability	10 min.	200°C	
	30 min.	200°C	
Light fastness	1/3 SD	6.5 %	3
Light fastness		10.0 %	4

Silver laquer	4
Sterilization	Water phase
	4
	Steam phase
	4-5

Recommended for

Paste inks		Liquid inks	
Sheetfed	■	NC alcohol	●
Heatset	●	NC acetate	●
Coldset	●	Waterbased	■
Silkscreen	-	Polyvinyl butyral	-
Metal deco	●	Polyamide	■
UV curing (Offset)	■	Pub gravure, Toluene	○
		Decorative laminates	-
		UV curing (Flexo)	■

■ = highly recommended
 ● = recommended
 ○ = limited suitability
 - = not tested