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Cinquasia® Red K 4104

(Cromophtal® Red 2020)

Chemical type

Quinacridone

CI Constitution No

73900

CI Generic Name

Pigment Violet 19



full shade over white
(0.1 % in HDPE)



full shade over black
(0.1 % in HDPE)



1/3 ISD in HDPE

L*	47.80	41.30	54.00
C*	61.00	43.50	46.60
h	18.20	13.50	3.50
a	57.95	42.30	46.51
b	19.05	10.15	2.84

Plastics-specific remarks

High value attractive bluish-red shade pigment with high opacity and outstanding resistance properties. The preferred shading partner to Irgazin Red K 3840 for economical formulations in the bluish-red shade area

Application suitability

Recommended:
 PVC
 PVC/Rigid-PVC
 PVC/Plasticized-PVC
 Styrenics
 Styrenics/ABS
 Styrenics/General Purpose PS (GPPS)
 Polyolefins
 Polyolefins/PP
 Polyolefins/HDPE
 Polyolefins/LDPE/LLDPE
 EPL/POM
 Other Polymers–Elastomers/Rubber
 Other Polymers–Elastomers/PUR Coating

Potentially suitable:
 EPL
 EPL/PET
 EPL/PBT
 Other Polymers–Elastomers

Depth of shade

1/3 ISD % at 1 % TiO ₂ in PVC	0.33
1/3 ISD % at 1 % TiO ₂ in PO	0.38
1/3 ISD % at 1 % TiO ₂ in PS	–

Resistance properties in flexible PVC

	Reduction	Full shade
% Concentration	0.2 colored pigment	0.1 colored pigment
% Concentration	2.0 TiO ₂	– TiO ₂
Heat resistance	5	5
Light fastness	8	8
Migration	5	5
Weather fastness (2000 h)	4–5	5

Resistance properties in polyolefin

	Reduction	Full shade
Warping in HDPE (Plate test)		low
Warping in HDPE (Disc test)		low
% Concentration	0.1 colored pigment	0.1 colored pigment
% Concentration	1.0 TiO ₂	– TiO ₂
Heat resistance	300	300
Light fastness	8	8
Weather fastness (3000 h)	3–4	4–5

Resistance properties in PS

	Reduction	Full shade
% Colorant concentration	0.2	0.2
% TiO ₂	1.0	–
Heat resistance	300	300
Migration	5	5
Light fastness	6–7	8

Resistance properties in ABS

	Reduction	Full shade
% Colorant concentration	0.2	0.2
% TiO ₂	1.0	–
Heat resistance	280	260
Migration	5	5
Light fastness	6–7	6–7

Physical data

(based on actual Master Standard)

Bulk density	0.2 kg/l
Bulk volume	5.2 l/kg
DOP-absorption	66.8 g/100 g
Oil absorption	57.5 g/100 g
Specific gravity	1.53 g/cm ³
Specific surface	18.95 m ² /g

Solvent resistance data

Acetone	4–5
Butanol	4–5
Butylacetate	5
Cyclohexanone	5
Dibutyl phthalate	4–5
Diethyleneglycol	4–5
Dimethylacetamide	2–3
Dimethylacetamide, 45 °C	2–3
Dimethylacetamide/water 1 : 1	4–5
Dimethylacetamide/water 1 : 1.45	4
Dimethylacetamide/water 2 : 1	4
Dimethylacetamide/water 2 : 1.45	3–4
Dimethylacetamide/water 3 : 1	3–4
Dimethylacetamide/water 3 : 1.45	3
Dimethylformamide	3
Dimethylformamide, 45 °C	2–3
Dimethylformamide/MEK	3–4
Dimethylformamide/water 1 : 3	5
Dimethylformamide/water 1 : 3.45	4–5
Dioctyladipate	5
Dioctylphthalate	5
Ethanol	4–5
Ethylacetate	4–5
Ethylacetate/Toluene/Butanol	5
Ethylglycol	4
Methylethylketone	4–5
Methylisobutylketone	5
Naphtha, painter's naphtha	5
Toluene	5
Trichloroethylene	4–5
Water	5
Water, 45 °C	5
White spirit (boil.r. 80/110)	5
Xylene	5

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