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Irgalite® Yellow K 1415

Chemical type

Diarylide m-Xylidide

CI Constitution No

21100

CI Generic Name

Pigment Yellow 13



0.5 % in PVC – 0.4 mm,
over white



0.5 % in PVC – 0.4 mm,
over black



1/3 ISD in PVC

L*	83.60	73.00	90.30
C*	90.20	71.70	71.40
h	83.70	94.30	88.40
a	9.90	-5.38	1.99
b	89.66	71.50	71.37

Plastics-specific remarks

Good dispersibility and attractive coloristics thanks to combination of high strength and opacity, provides economical coloring possibilities. Recommended for PVC and PO when processed at T < 200 °C. Standard product for rubber coloration.

Application suitability

Recommended:

PVC
PVC/Rigid-PVC
PVC/Plasticized-PVC
Polyolefins/LDPE/LLDPE
Other Polymers – Elastomers/Rubber
Other Polymers – Elastomers/PUR Coating

Potentially suitable:

Polyolefins
Polyolefins/PP
Polyolefins/HDPE
Other Polymers – Elastomers

Depth of shade

1/3 ISD % at 1% TiO ₂ in PVC	0.08
1/3 ISD % at 1% TiO ₂ in PO	0.19
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	4–5
Light fastness	6	7
Migration	5	5
Weather fastness (2000 h)	1	3

**Resistance properties
in polyolefin**

	Reduction	Full shade
Warping in HDPE (Plate Test)		–
Warping in HDPE (Disc Test)		–
% Concentration	0.1 Colored pigment	0.1 Colored pigment
% Concentration	1.0 TiO ₂	– TiO ₂
Heat resistance	200	200
Light fastness	6–7	7–8
Weather fastness (3000 h)	–	–

Physical data

(based on actual Master Standard)

Bulk density	0.255 kg/l
Bulk volume	3.916 l/kg
DOP-absorption	42.5 g/100 g
Oil absorption	42.0 g/100 g
Specific gravity	1.30 g/cm ³
Specific surface	11.29 m ² /g

Solvent resistance data

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

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