

Irgazin[®] Red K 3840

(Old: Cromophtal[®] Red 2030)



Chemical type	Diketo-pyrrolo-pyrrole
CI Generic Name	Pigment Red 254
CI Constitution No	56110
Description	Semi-opaque mid shade red with high color strength, providing excellent dispersibility and heat resistance in polyolefins, PVC and styrenics. Proven Industry Standard for all indoor and selected outdoor applications. Recommended for polyolefin consumer goods, including food packaging.
Preparations	Depending on the suitability of the pigment, mono-pigment preparations for PVC, polyolefin, elastomers and further polymers may be available. Please contact your local BASF sales representative.

Properties

Coloristic properties



Full shade over white 0.10 % in PVC	Full shade over white 0.50 % in PVC	White reduction 1/3 ISD in PVC
---	---	---------------------------------------

L*	49.0	L*	45.7	L*	57.0
a*	62.1	a*	57.7	a*	51.9
b*	35.8	b*	34.7	b*	16.1
C*	71.7	C*	67.2	C*	54.3
h	30.0	h	31.1	h	17.2

1/3 ISD at 1.0 % TiO₂ in HDPE: 0.16 %
 1/3 ISD at 1.0 % TiO₂ in PVC: 0.15 %

Physical properties

Product form	Powder
Density	1.72 g/cm ³
Bulk density	0.18 kg/l
Bulk volume	5.6 l/kg
Specific Surface	26.7 m ² /g

Polymer suitability

PVC	■		
LL / LDPE	■	HDPE	■
PP	■	PP fibers	■
PA6	☒	PA6 fibers	☒
PET	☒	PES fibers	☒
PC	☒	PMMA	☒
PS	□	HIPS	□
ABS	□	SAN	☒
Rubber	■	PUR	■

■: Recommended □: Limited suitability ☒: Not recommended

If you need information on other polymers, please contact your local BASF representative.

Technical performance

For details regarding the test methods, please refer to the BASF Colorants for Plastics test methods overview or contact your local BASF representative.

PVC-P

	Full shade	White reduction
Pigment concentration	0.10 %	0.20 %
TiO ₂ concentration		2.00 %
Migration (GS)	5	nt
Light fastness (BWS)	8	7-8
Hot light fastness (GS)	4-5	4-5
Weather resistance (GS) 3000 h	5	3-4
5000 h	5	3-4

nt: not tested

-: below limit of GS 3

HDPE

	Full shade	White reduction
Pigment concentration	0.10 %	0.10 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	300	300
Migration (GS)	5	nt
Light fastness (BWS)	7-8	7-8
Weather resistance (GS) 3000 h	4	-
5000 h	3	-

nt: not tested

-: below limit of GS 3

Warping	High
Filter pressure value in PP (bar/g)	not tested

PS

	Full shade	White reduction
Pigment concentration	0.10 %	0.10 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	300	280
Migration (GS)	5	nt
Light fastness (BWS)	7-8	8

nt: not tested

HIPS

		White reduction
Pigment concentration		0.20 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3		300
Migration (GS)		5
Light fastness (BWS)		7-8

ABS

	Full shade	White reduction
Pigment concentration	0.20 %	0.20 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	260	260
Migration (GS)	5	nt
Light fastness (BWS)	7	7-8

nt: not tested

Regulatory and Compliance status

For details regarding the regulatory and compliance status, please refer to the respective product regulatory information sheets and food contact certificates.
They are available upon request at ed-psr@basf.com.

Note

The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contractual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the readers carry out their own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication may change without prior information. The descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained; all such being given and accepted at the reader's risk.

Asia

BASF East Asia Regional
Headquarters Limited
Dispersions and Pigments

45/F Jardine House
No. 1 Connaught Place
Hong Kong

phone: +852 2731 0111

dispersions-pigments-asia@basf.com

Europe, Africa, West Asia

BASF SE
Pigments

E-EDC/FK - J550
67056 Ludwigshafen
Deutschland

phone: +49 621 60 58262

www.dispersions-pigments.basf.com

North America

BASF Corporation

24710 West Eleven Mile Road
Southfield, MI 48033
USA

phone: 800-962-7829

dpsolutions@basf.com
basf.us/dpsolutions.com

South America

BASF S.A.

Av. das Nações Unidas, 14.171,17o.
andar, Morumbi
04794-000 Sao Paulo
Brazil

phone: +55 11 2039-3166

packaging-sa@basf.com