

Irgalite[®] Red K 4170

(Old: Irgalite[®] Red 2BQ)



Chemical type	BONA-Lake (Ca)
CI Generic Name	Pigment Red 48:2
CI Constitution No	15865:2
Description	Transparent blue shade red with high saturation and color strength. Low warping in HDPE injection molding. The standard 2B-toner with proven performance in films and PP fibers. Suitable for rubber and PUR applications.
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*	45.9	L*	40.3	L*	54.2
a*	59.3	a*	46.9	a*	49.6
b*	20.6	b*	25.1	b*	0.1
C*	62.7	C*	53.2	C*	49.6
h	19.2	h	28.2	h	0.1

1/3 ISD at 1.0 % TiO₂ in HDPE: 0.13 %
1/3 ISD at 1.0 % TiO₂ in PVC: 0.12 %

Physical properties

Product form	Powder
Density	1.73 g/cm ³
Bulk density	0.20 kg/l
Bulk volume	5.0 l/kg
Specific Surface	56.2 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)	7	6
Hot light fastness (GS)	-	-
Weather resistance (GS) 3000 h	-	-
5000 h	-	-

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	200	220
Migration (GS)	5	nt
Light fastness (BWS)	7	7
Weather resistance (GS) 3000 h	-	-
5000 h	-	-

nt: not tested

-: below limit of GS 3

Warping	Low
Filter pressure value in PP (bar/g)	<2

PS

	Full shade	White reduction
Pigment concentration	0.10 %	0.10 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	220	240
Migration (GS)	5	nt
Light fastness (BWS)	6-7	4

nt: not tested

HIPS

	White reduction
Pigment concentration	0.20 %
TiO ₂ concentration	1.00 %
Heat resistance (°C) Limit DE 3	240
Migration (GS)	5
Light fastness (BWS)	4-5

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

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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