



Heliogen[®] Blue K 7090

Chemical type	Cu-phthalocyanine
CI Generic Name	Pigment Blue 15:3
CI Constitution No	74160
Description	Transparent green shade β-Cu-phthalocyanine blue with high color strength. Very reliable processing behavior for most polymers and processes. Recommended for PP, PES and PA6 fibers. Excellent overall properties make it suitable for indoor and outdoor 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*	52.1	L*	33.4	L*	59.4
a*	-32.2	a*	-5.8	a*	-22.3
b*	-39.5	b*	-28.2	b*	-37.7
C*	50.9	C*	28.8	C*	43.8
h	230.8	h	258.4	h	239.3

1/3 ISD at 1.0 % TiO₂ in HDPE: 0.12 %
 1/3 ISD at 1.0 % TiO₂ in PVC: 0.09 %

Physical properties

Product form	Powder
Density	1.69 g/cm ³
Bulk density	0.20 kg/l
Bulk volume	5.0 l/kg
Specific Surface	54.6 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	8
Hot light fastness (GS)	4-5	5
Weather resistance (GS) 3000 h	5	4-5
5000 h	4-5	4-5

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	280	300
Migration (GS)	5	nt
Light fastness (BWS)	8	8
Weather resistance (GS) 3000 h	5	4-5
5000 h	5	4-5

nt: not tested

-: below limit of GS 3

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

PA6

Full shade White reduction

Pigment concentration	0.20 %	0.20 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	320	320
Migration (GS)	5	nt
Light fastness (BWS)	8	8

nt: not tested

PET**Full shade**

Pigment concentration	0.10 %
Heat resistance (°C) Limit DE 3	300
Migration (GS)	5
Light fastness (BWS)	7

PC**Full shade**

Pigment concentration	0.10 %
Heat resistance (°C) Limit DE 3	300
Migration (GS)	5
Light fastness (BWS)	7-8

PMMA**Full shade**

Pigment concentration	0.10 %
Heat resistance (°C) Limit DE 3	260
Migration (GS)	4.8
Light fastness (BWS)	7-8

PS**Full shade****White reduction**

Pigment concentration	0.10 %	0.10 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	280	260
Migration (GS)	5	nt
Light fastness (BWS)	7	7

nt: not tested

HIPS**White reduction**

Pigment concentration		0.20 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3		280
Migration (GS)		5
Light fastness (BWS)		6

ABS**Full shade****White reduction**

Pigment concentration	0.20 %	0.20 %
TiO ₂ concentration		1.00 %
Heat resistance (°C) Limit DE 3	260	300
Migration (GS)	5	nt
Light fastness (BWS)	6-7	6-7

nt: not tested

SAN

	White reduction
Pigment concentration	0.20 %
TiO ₂ concentration	1.00 %
Heat resistance (°C) Limit DE 3	280
Migration (GS)	5
Light fastness (BWS)	7 - 8

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 pigments-safety@basf.com.

Note

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