

Nomenclature

Structure

The commercial products under the name of LOXIAMID® are generally based on the scheme below

LOXIM® BRAND	Po. 1	Po. 2	Po. 3	Po. 4	Po. 5	Po. 6	Po.7	Po. 8	Po. 9	Po. 10	Po. 11
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The LOXIM® BRAND product portfolio consists of:

LOXISTER
PBT • PET • ALLOYS

LOXILENE
PP

LOXIRENE
ABS • ASA • SAN • ALLOYS

LOXIAMID
PA66 • PA6 • ALLOYS

LOXICARB
PC • ALLOYS

LOXILLOY
PC / ABS

LOXISTAL
POM

PRODUCT IDENTIFICATION

The product identification is made of positions 1 to 7, consisting of a series of alphanumeric characters which illustrate the polymer type, the stabilisation, reinforcement, filler type and its content, and any special features. The following example outlines the classification scheme used by LOXIM:

PA6	FRV0	GB	30	UV1
Polymer Type	Flame Retardant	Filler Type	Filler Content %	Special Stabilisation Features

POSITION 1 – POLYMER TYPES

Indicates the type of polymer.

LOXISTER

PBT	Polybutylene Terephthalate
PBT/PC	Polybutylene Terephthalate / Polycarbonate
PBT/PET	Polybutylene Terephthalate / Polyethylene Terephthalate
PC/PBT	Polycarbonate / Polybutylene Terephthalate
PC/PET	Polycarbonate / Polyethylene Terephthalate

LOXILENE

PP CP	Polypropylene Co-polymer
PP HP	Polypropylene Homo-polymer

LOXIRENE

ABS	Acrylonitrile Butadiene Styrene
ABS/PC	Acrylonitrile Butadiene Styrene / Polycarbonate
ABS/PMMA	Acrylonitrile Butadiene Styrene / Poly (Methyl Methacrylate)
ASA/PC	Acrylonitrile Styrene Acrylate / Polycarbonate
PPE/HIPS	Polyphenylene Ether / High Impact Polystyrene
SAN	Styrene Acrylonitrile

LOXIAMID

ASA/PA6	Acrylonitrile Styrene Acrylate / Polyamide 6
PA 6	Polyamide 6
PA 66	Polyamide 66
PA6/ABS	Polyamide 6 / Acrylonitrile Butadiene Styrene

LOXICARB

PC	Polycarbonate
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LOXILLOY

PC/ABS	Polycarbonate / Acrylonitrile Butadiene Styrene
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LOXISTAL

POM/PE	Polyoxymethylene/ Polyethylene
POM/PTFE	Polyoxymethylene/Polytetrafluorethylene

POSITION 2 – FLAME RETARDANT

Based on the flammability rating, the products are listed as*:

FRV0	With V0 Flammability Rating
FRV1	With V1 Flammability Rating
FRV2	With V2 Flammability Rating
FRV0HF	Halogen Free with V0 Flammability Rating
FRV1HF	Halogen Free with V1 Flammability Rating
FRV2HF	Halogen Free with V2 Flammability Rating

* - The product is categorised under HB as the flammability rating if the above is not mentioned.

* - All LOXILLOY and LOXIRENE blends have a special consideration and are designated in their respective series. Their special categorisation is mentioned in the following page.

POSITION 3 – FILLER TYPE

This position defines the type of filler in the polymer grade. The following reinforcements or fillers are generally used

CF	Carbon Fibre
GB	Glass Beads
GF	Glass Fibre
GFCC	Glass Fibre Chemically Coupled
MR	Mineral
TA	Talc

POSITION 4 – FILLER CONTENT

Key numbers describing the percentage content of reinforcing agents/fillers or modifiers. Example:

GF20	20% glass fibre reinforced
GF20MR10	20% glass fibre and 10% mineral filled
TA10	10% talc reinforced

POSITION 5 TO 7 – SPECIAL STABILISATION FEATURES

List of characters used to identify special stabilisation properties are arranged in a following general scheme:

POSITION 5 - HEAT STABILISATION (*For Semi-Crystalline Grades*)

- HS1
- Improved resistance to heat aging, hot water and weather.
 - Electrical properties are uninfluenced.
 - Compound natural colour – Light Beige
 - Compound colour available upon request

- HS2
- Highest resistance to heat aging, hot water, oil, grease, water/glycol and weather.
 - Electrical properties are uninfluenced.
 - For engineering applications only.
 - Compound natural colour – Beige to Brown
 - Compound colour available in natural and black colour

- HS3
- High resistance to heat aging and weather. Less suited for electrical applications.
 - For engineering applications only
 - Compound natural colour – Light Greenish
 - Compound colour available in natural and black colour

POSITION 5 – FLOWABILITY (*For Amorphous Grades*)

- MF1 Moderate Flow Characteristics
 MF2 Medium Flow Characteristics
 MF3 High Flow Characteristics

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SPECIAL CONSIDERATION FOR LOXILLOY and LOXIRENE Grades* - See Footnote

POSITION 6 – HYDROLYSIS RESISTANCE

(Only for PA66 in combination with heat stabilisation)

HR1	High hydrolysis and heat aging resistance.
HR2	Highest hydrolysis and heat aging resistance.

POSITION 7 - UV STABILISATION

UV1	Moderate Stabilisation
UV2	Intermediate Stabilisation
UV3	High Stabilisation

SPECIAL CONSIDERATION FOR POLYPROPYLENE

PP	- PP Homopolymer + PP Copolymer
PPH	- PP Homopolymer
PPC	- PP Block Copolymer
PPR	- PP Random Copolymer

POSITION 8 – SUFFIXES

Used optionally, suffixes are used to identify specific processing or application-related properties. The modifications and fillers used are listed below.

Filler

AR	Aramid Powder
BS	Barium Sulphate
MOS	Molybdenum Disulphide
PTFE	Polytetrafluoroethylene

MODIFICATION

AM	Anti-Microbial
EC	Electrically Conductive
EF	Easy Flow
GAT	Gas Assisted Technology

GS	Improved Surface Quality
HF	High Flow
HTR	High Temperature Resistance
IM	Impact Modified
	IM1 – Moderate Toughness
	IM2 – High Toughness
	IM3 – High Toughness
LE	Low Emission
SI	Silicon

POSITION 9 TO 10 – COLOUR CODE

The colour code is generally composed of the colour name, followed by a polymer code and lastly the colour number.

Examples

BK0305	Black Colour – Colour Shade 5
NC0301	Natural Colour
RE0301	Red Colour – Colour Shade 1

A list of available colours are:

BG	Beige Grey	OR	Orange
BK	Black	RE	Red
BL	Blue	SL	Silver
BR	Brown	VI	Violet
GR	Green	WI	White
GY	Grey	YL	Yellow
NC	Natural		

POSITION 11 – FORMULATION NUMBER

The colour code is followed by a 5digit formulation number.

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ALLOY

SERIES + VICAT/HDT

MVR

Po. 8 - 11

Example

LOXILLOY PC/ABS 1125-20 UV1 IM3 NC0501 05003

LOXIM® BRAND	Po. 1#	Po. 2#	Po. 3#	Po. 4#	Po. 5#	Po. 6#	Po.7#	Po. 8 -11#
<i>Variables</i>	ALLOY	SERIES (1000) + VSP (125)	MVR	UV stabilization – UV1 Moderate Stabilization	Impact Modified High Toughness	Natural Color 05 Polymer Code 01 Color shade	05 – Polymer No 003 – Formulation No	Not Applicable
LOXILLOY	PC/ABS	1125	20	UV1	IM3	NC0501	05003	N.A.

Position 1 to 11 If Applicable

LOXILLOY**1000-Series**

- Standard Grades

For Position 2

Unfilled grade VSP mentioned

Filled grade HDT mentioned

2000-Series

- Easy Flowing Grades
- High Gloss Grades

3000-Series

- Chrome Plating Grades
- Impact Modified Grades

4000-Series

- Glass Reinforced Grades
- Carbon Fiber Reinforced Grades

5000-Series

- FR Grades
 1. Halogenated Grades
 2. Non-Halogenated Grades

LOXIRENE**6000-Series (ABS/PC)**

- Standard Grades
- Easy Flowing Grades
- Light Reflecting Grades

7000-Series (PC/ASA)

- Standard Grades
- Easy Flowing Grades

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