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1) COLOUR CONCENTRATES (COLOUR MASTERBATCHES)

	1.1) COLOUR MASTERBATCHES for POLYOLEFINS	
	a) Customised Colour Masterbatches for Polyolefins	
MAXITHEN® HP - PRODUCTS	Pigment preparations in pellet form for the colouring of polyolefins (HDPE, LDPE, PP etc.) carrier material: polyethylene main application: injection moulding, film, blow moulding, extrusion of thick-walled articles, fibres, tapes	
MAXITHEN® PP - PRODUCTS	Pigment preparations in pellet form for the colouring of polypropylene carrier material: polypropylene main application: injection moulding, film, blow moulding, extrusion of thick-walled articles, fibres, tapes	
	b) Standard Colour Range for Polyolefins	
MAXITHEN® HP - RANGE for thin-walled articles "Film - Catalogue"	Pigment preparations in pellet form for the colouring of polyolefins (HDPE, LDPE, PP etc.) carrier material: polyethylene main application: film	
MAXITHEN® HP - RANGE for thick-walled articles "HP - Chain"	Pigment preparations in pellet form for the colouring of polyolefins (HDPE, LDPE, PP etc.) carrier material: polyethylene main application: injection moulding, blow moulding, extrusion of thick-walled articles	

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 GABRIEL-CHEMIE GROUP	b) Standard Colour Range for Polyolefins
MAXITHEN® HP - RANGE for thick-walled articles of high precision	Pigment preparations in pellet form, based on selected pigments, which either have no or very little influence on the shrinkage of partially crystalline polyolefins. For the colouration of polyolefins (HDPE, LDPE, PP etc.) carrier material: polyethylene main application: bottle crates and other articles, where high precision is necessary
MAXITHEN® HP-F RANGE for tapes and colouring spun threads "Tape - Catalogue"	Pigment preparations in pellet form based on selected pigments with optimum dispersion quality for colouring of polyolefins (HDPE, PP) carrier material: polyethylene main application: thin films, monoaxially stretched tapes, threads of higher thickness
MAXITHEN® PP-F RANGE for fine fibres	Pigment preparations in pellet form for the mass colouring of polypropylene fibres, in particular for polypropylene fine fibres below 5 dtex. carrier material: polypropylene main application: fibres
MAXITHEN® PP - RANGE for medical articles of polypropylene	Pigment preparations in pellet form for the transparent colouring of medical articles of polypropylene. carrier material: polypropylene main application: injection moulding of medical articles
MAXITHEN® PP - RANGE for the transparent colouring of polypropylene "Transparent - Catalogue"	Pigment preparations in pellet form for the transparent colouring of polypropylene. carrier material: polypropylene main application: injection moulding, extrusion

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 GABRIEL-CHEMIE <small>GROUP</small>	1.3) COLOUR MASTERBATCHES for ENGINEERING POLYMERS
MAXITHEN® PA – PRODUCTS for application in thick and thin-walled articles	a) Customised Colour Masterbatches for Engineering Polymers Preparations in pellet form, based on pigments and dyestuffs, for the colouring of polyamide (PA6, PA6.6). carrier material: polyamide 6 main application: injection moulding, films
MAXITHEN® PC/PCD - PRODUCTS	Preparations in pellet form, based on pigments and dyestuffs, for the colouring of polycarbonate. carrier material: polycarbonate main application: injection moulding, sheet extrusion
MAXITHEN® PET/PETD - PRODUCTS	Preparations in pellet form, based on pigments and dyestuffs, for the colouring of polyethylene terephthalate. carrier material: polyethylene terephthalate (PET) main application: preforms, blow moulding, sheets
MAXITHEN® PMMA/PMMA - PRODUCTS	Preparations in pellet form, based on pigments and dyestuffs, for the colouring of polymethyl methacrylate. carrier material: polymethyl methacrylate (PMMA) main application: injection moulding, sheet extrusion
 GABRIEL-CHEMIE <small>GROUP</small>	b) Standard Colour Range for Engineering Polymers
MAXITHEN® PA -RANGE for application in thick- walled articles	Preparations in pellet form, based on pigments and dyestuffs, for the colouring of polyamide (PA6, PA6.6). carrier material: polyamide 6 main application: injection moulding
MAXITHEN® PET -RANGE for application in thin- walled articles	Preparations in pellet form, based on pigments and dyestuffs, for the colouring of polyethylene terephthalate. carrier material: polyethylene terephthalate (PET) main application: preforms, blow moulding, sheets


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2) COLOUR/ADDITIVE CONCENTRATES (COMBIBATCHES)


 <p>GABRIEL-CHEMIE GROUP</p>	
<p>MAXITHEN® COLOUR/ADDITIVE- CONCENTRATES</p>	<p>Special, tailor-made colour/additive combination masterbatches made to customers specifications, applicable in almost all thermoplastic materials.</p> <p>examples:</p> <ul style="list-style-type: none"> Colour/UV/FR – combination for stadium seats Colour/UV – combination for bottle crates Colour/UV – combination for garden furniture Colour/UV – combination for tape Colour/AS – combination for film, blow moulding Colour/GL – combination for bottle closures Colour/FR – combination for electric parts, construction Colour/LS – combination for laser marking etc.

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3) ADDITIVE CONCENTRATES (ADDITIVE MASTERBATCHES)

 GABRIEL-CHEMIE <small>GROUP</small>	3.1) LIGHT (UV) STABILISER MASTERBATCHES
HP 79860 UV	Light stabiliser masterbatch for universal use in polyolefins.
HP 79470 UVAO	Combined light/antioxidant stabiliser masterbatch for use in LDPE/LLDPE packaging film and shrinking hoods.
HP 79710 UV HP 79710/20 UV	Light stabiliser masterbatch for packaging film and shrink hoods (wall thickness below 120 µm).
HP 79141/105 UVAO	Combined light/antioxidant stabiliser masterbatch for use in polyethylene agricultural films (based on Ni-Quencher). – 1 st generation
HP 72630 UVAO	Combined light/antioxidant stabiliser masterbatch for use in agricultural films. – 2 nd generation
HP 72910 UVAO	Combined light/antioxidant stabiliser masterbatch with increased chemical resistance for use in agricultural films with an extended service life. – 3 rd generation
HP 793680 UV	Light stabiliser masterbatch with very high chemical resistance, for use in agricultural films – 4 th generation.
HP 76100 UV	Light stabiliser masterbatch with very high chemical resistance combined with UV absorber, for use in agricultural films from a thickness of 120µm.
HP 792850 UVAO	Highly effective light stabiliser / anti oxidant masterbatch for the stabilisation of agricultural films, and particularly mulch films.
HP 794160 UV	Light stabiliser masterbatch, for general use in polyolefins. Improved water carry over when producing tapes.
HP 794880 UV	Light stabiliser masterbatch for the stabilisation of thin walled articles (e.g. films or tapes) as well as for thick walled extruded and injection moulded articles.




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 GABRIEL-CHEMIE <small>GROUP</small>	3.1) LIGHT (UV) STABILISER MASTERBATCHES (continued)
PP 791360 UVFR	Light stabiliser masterbatch with flame retardant effect for thin-walled applications in polypropylene.
PPSYS 75650/.. UVFR	Light stabiliser/flame retardant - masterbatch system for thick-walled applications in polypropylene (e.g. stadium seats).
SB 79930 UVAO	Combined light/antioxidant stabiliser masterbatch for HIPS.
PS 74500 UVAO	Light stabiliser / antioxidant masterbatch for polystyrene.
SAN 74830 UVAO	Light stabiliser / antioxidant masterbatch for ABS.
PA 76700 UVAO	Light stabiliser / antioxidant masterbatch for PA, for fibres and injection moulded articles.
 GABRIEL-CHEMIE <small>GROUP</small>	3.2) LIGHT STABILISER MASTERBATCH FOR PACKAGING CONTENTS
HP 793700 UV	UV absorber masterbatch for polyolefins, to protect packaging contents from UV exposure.
PP 790280/10 UV	UV absorber masterbatch for polypropylene, to protect packaging contents from UV exposure.
PS 794650 UV	UV absorber masterbatch for polystyrene, to protect packaging contents from UV exposure.
PA 794380 UV	UV absorber masterbatch for polyamide, to protect packaging contents from UV exposure.
PET 794140C115 UVCR	UV absorber masterbatch for PET, to protect packaging contents from UV exposure.



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 GABRIEL-CHEMIE <small>GROUP</small>	3.3) ANTIOXIDANT MASTERBATCHES
HP 79720 AO	Antioxidant masterbatch for all polyolefins, especially for recycled polymers, high temperature processes as well as for "freeze-mixtures".
HP 795630 AO	Antioxidant masterbatch for all polyolefins, especially used during processing and recycling.
PP 71530 AO	Antioxidant masterbatch with high extraction resistance, used to improve the long term stability of polypropylene.
HP 78530 MDAO	Combined metal deactivator/antioxidant masterbatch to reduce the influences of heavy metals, especially copper. Application: cable sheathing and articles in direct contact with metal.
 GABRIEL-CHEMIE <small>GROUP</small>	3.4) FLAME RETARDANT MASTERBATCHES
HP 72521 FR	Universally applicable flame retardant masterbatch with high thermal stability for the flame protection of films and profiles (free from decabromdiphenyloxid).
HP 79031 FR	Universally applicable flame retardant masterbatch with high thermal stability, for the flame protection of films and profiles.
HP 73940 FR	Flame retardant masterbatch for LDPE films, profiles and foams.
HP 78900 FR	Flame retardant masterbatch for HDPE and PP injection moulded articles and profiles, to obtain flammability classification V2 according to UL94.
HP 791460 UVFR PP 791360 UVFR	Light stabiliser masterbatch with halogen free flame retardant effect for thin walled applications made of polyethylene or polypropylene.
PPSYS 75650/.. UVFR	Light stabiliser/flame retardant - masterbatch system for thick-walled applications in polypropylene (e.g. stadium seats).
PS 78320/50 FR	Flame retardant masterbatch for PS-foam. Also suitable for HIPS thick-walled articles to obtain flammability classification V2 according to UL94.



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 GABRIEL-CHEMIE <small>GROUP</small>	3.4) FLAME RETARDANT MASTERBATCHES (continued)
PS 7A1550 FR	Flame retardant masterbatch for PS foam with very high thermal stability, also suitable for thick walled HIPS articles.
PS 792050 FR	Flame retardant masterbatch for injection moulding and extrusion processes, to obtain flammability classification UL94 and IEC 695 (glowing wire test).
SB 795470 FR	Flame retardant masterbatch for higher processing temperatures (extrusion, injection moulding).
UNS 76200 FR	Flame retardant masterbatch for technical polymers.
 GABRIEL-CHEMIE <small>GROUP</small>	3.5) ANTISTATIC MASTERBATCHES
HP 7041/05 AS	Antistatic masterbatch for all types of polyolefins.
HP 77571 AS	Antistatic masterbatch for polyolefins (based on an amine free antistatic).
HP 75590 AS	Antistatic masterbatch for polyolefins (quick starter).
PP 78680 AS20	Antistatic masterbatch for PP applications.
PP 791310 AS	Antistatic masterbatch for polypropylene used at sheet extrusion.
SB 78700 AS	Antistatic masterbatch for styrenic polymers.
 GABRIEL-CHEMIE <small>GROUP</small>	3.6) LUBRICANT MASTERBATCHES
HP 7051/05 O	Lubricant masterbatch for polyolefins, based on oleic amide. Specially recommended for increasing the slip effect in films.
HP 7051/05 E	Lubricant masterbatch for polyolefins based on erucamide. For applications where the thermal stability of oleic amide is not sufficient. On request also available based on PP.




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 GABRIEL-CHEMIE <small>GROUP</small>	3.6) LUBRICANT MASTERBATCHES (continued)
HP 72670 GL	Anti-laminate masterbatch for the production of LDPE shrinking hoods to prevent the shrink film from sticking together with the PE packaging material of the content underneath and as a lubricant masterbatch to increase the slip effect of LLDPE/EVA stretch film.
HP 791150 GL	Lubricant masterbatch for polyolefin foam to improve the tendency to shrink in case of hydrocarbon blowing gas.
HP 73310 GLNU	Lubricant/nucleating masterbatch for polyolefin foam to improve the tendency to shrink in case of hydrocarbon blowing gas.
PP 790660 GL	Lubricant masterbatch for thin walled and thick walled polypropylene applications.
PET 794980 GL	Lubricant masterbatch for PET processing.
 GABRIEL-CHEMIE <small>GROUP</small>	3.7) POLYMER PROCESSING AIDS
HP 792660 PPA	Polymer processing aid for improving the surface of polyolefin articles. It is especially useful in avoiding melt fracture during the processing of LLDPE.
HP 71030 PPA	Polymer Processing Aid for improving the surfaces of polyolefin articles. Particularly recommended for preventing melt fracture during extrusion.
PS 78330 MOD	Processing aid for extruded polystyrene foam (XPS) based on styrene polymers. Highly stabilised in order to reduce shear. A reduced force is required to increase output, causes better temperature control of the melt and lower melt friction. No negative influences on flame retardancy.



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 GABRIEL-CHEMIE <small>GROUP</small>	3.8) ANTIBLOCK MASTERBATCHES
HP 7011 AB	Antiblock masterbatch for polyolefin films based on natural silica. Not suitable for thin gauge films.
HP 79530 AB	Antiblock masterbatch for polyolefin films based on synthetic silica. Use does not affect transparency. Suitable for thin gauge films.
HP 7081 ABGLO	Combination antiblock/slip masterbatch for polyolefin films. (slip agent based on oleic amide).
HP 7081 ABGLE	Combination antiblock/slip masterbatch for polyolefin films. (slip agent based on erucamide).
PET 794490 ABCR	Antiblock masterbatch for PET films.
PET 7A2220 ABGL	Antiblock / lubricant masterbatch for PET films.
 GABRIEL-CHEMIE <small>GROUP</small>	3.9) NUCLEATING MASTERBATCHES
HP 78690/40 NU	Inorganic nucleating masterbatch for polyolefin foam to obtain a fine cell structure.
PP 790017 NU	Nucleating masterbatch to decrease cycle time, especially in PP injection moulding.
PP 794940 NU	Nucleating masterbatch for increasing the transparency of PP articles.
SB 78690 NU	Inorganic nucleating masterbatch to obtain a fine cell structure with a reduced water absorption of XPS foamed sheet.
PS 790980 NU	Inorganic nucleating masterbatch to obtain a fine cell structure with a reduced water absorption of XPS foamed sheet. Food approved for XPS food packaging.
PET 793780 NUCR	Inorganic nucleating masterbatch for PET applications.


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 GABRIEL-CHEMIE <small>GROUP</small>	3.10) BLOWING AGENT MASTERBATCHES
HP 78980/50 TR	Endothermic blowing agent masterbatch for the production of PS foamed sheet.
HP 78810/40 TR	Endothermic blowing agent masterbatch to achieve very fine cell structure for the production of foamed polyolefin articles.
HP 78810/20 TR	Endothermic blowing agent masterbatch for foamed polyolefins. Reduces sink marks in injection moulded components and produces films with fine cell structure. (e.g. PP decoration tapes)
HP 789450 TR	Endothermic blowing agent masterbatch for extrusion and injection moulding processing below 200°C.
 GABRIEL-CHEMIE <small>GROUP</small>	3.11) LASER MARKING ADDITIVES
LS - RANGE	Masterbatch to improve the ability of thermoplastics to be laser-marked. Detailed product portfolio on request: Different additive preparations available, depending on which polymer should be marked, whether a light or dark colour change should be obtained and what laser-marking technology is used. Combination masterbatches colour/laser-marking available on request.
 GABRIEL-CHEMIE <small>GROUP</small>	3.12) ANTIFOG – MASTERBATCHES
HP 790470 AF	Antifog masterbatch for agricultural films.
HP 793220 AF	Long term effect Antifog masterbatch for films.
PP 75770 AFAB	Antifog / Antiblock masterbatch for PP films used for food packaging.

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 GABRIEL-CHEMIE <small>GROUP</small>	3.13) CLEANING COMPOUNDS
HP 7100 CC	Cleaning compound based on PE. Used in high dosages for cleaning machine parts that come into contact with material (cylinder, screw, nozzle), for example for reducing the cleaning time during colour changes.
HP 71840 AOSF	Acid scavenger / antioxidant combination masterbatch based on polyethylene, used for cleaning machines which have processed flame retardant polymer melts containing halogen. Used to neutralise the thermic overstress of flame retardant, and for occasional rinsing of the machine. Also helps to avoid fish eye, which can be caused through the oxidative cross linking of polymers.
UNS 76380 CC	Cleaning compound for extrusion and injection moulding machines.
SB 71820 SF	Extremely effective acid scavenger masterbatch based on styrene polymers. Used to neutralise the thermal overstress of flame retardant, and for occasionally rinsing foaming plants.
 GABRIEL-CHEMIE <small>GROUP</small>	3.14) OTHER ADDITIVE MASTERBATCHES
HP 790101	Antisplit masterbatch based on CaCO ₃ , used in films and tapes made of LDPE, LLDPE and PP. This product is also used as matting agent.
HP 790240	Tackyfier masterbatch to obtain an adhesive effect in polyolefin films, especially in LDPE/LLDPE stretch films.
HP 77800 ASL	Antislip masterbatch to improve stacking of PE heavy duty bags.
HP 77850 IR	IR barrier masterbatch for green house films.
HP 790230 ZR	Additive masterbatch for regulating the cell structure and reduction of thermal conductivity (for polyolefin foam)

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 <p>GABRIEL-CHEMIE GROUP</p>	<p>3.15) PET ADDITIVES</p>
<p>PET 794140C115 UVCR</p>	<p>UV absorber masterbatch for PET packaging, used to protect the contents from damaging UV influences.</p>
<p>PET 794980 GL</p>	<p>Lubricant masterbatch for PET processing.</p>
<p>PET 794490 ABCR</p>	<p>Antiblock masterbatch for PET films.</p>
<p>PET 7A2220 ABGL</p>	<p>Antiblock / lubricant masterbatch for PET films and hollow articles.</p>
<p>PET 793780 NUCR</p>	<p>Inorganic nucleating masterbatch for PET applications.</p>
<p>PET 795000</p>	<p>Chain Extender – a reactive additive solution which improves the quality of recycled material at recycling applications.</p>
<p>Acetaldehyde Scavenger</p>	<p>Combined AA scavenger / colour masterbatch – available on request.</p>

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**CUSTOMISED ADDITIVE MASTERBATCHES
FOR ALL RANGES, POLYMERS AND
APPLICATIONS ON REQUEST**

This product information acts as a guideline only and is subject to changes without notice. It should not be construed as guaranteeing specific properties or suitability for a particular application. Therefore, trials by the customers using their polymer at their specific conditions are highly recommended. This information has been translated – in case of doubts the original German version is to be considered.



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