



**PASSION FOR CARPETS
& FLOOR COVERINGS**

Best-in-class system solutions





/How do we bring **best-in-** **class** expertise, sustainability and performance to **carpets?**

CREATING SUSTAINABLE SOLUTIONS

At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

Archroma is committed to developing innovative products and processes that are safer for the consumer and for the environment. We strongly believe, based on our extensive experience in textile processing, that sustainability can generate innovation, performance and often lead to cost reductions and added value for our customers. For this reason, our clear ambition is to offer our customers the best possible system for their textile segments.

Innovation is a core competence of Archroma, which ensures that our products and services meet future demands, foster future technologies and contribute to a more sustainable textile industry.

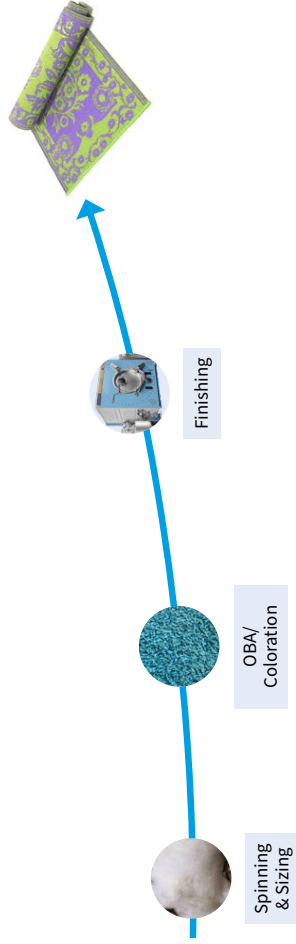
As a global leader in color and specialty chemicals with a trusted heritage, we offer bespoke product solution systems and innovations. We strive to be a reliable partner for textile mills as well as major retailers and brands for the whole textile chain – **from the first idea to the final article.**

Brand owners and retailers around the world are taking action to evaluate the environmental impact of textile treatment, dyeing and finishing processes in response to consumer concerns. We can support textile manufacturers with this. Our exclusive Archroma Process Simulator can be used to simulate and compare products and processes, and thus calculate the ecological and economical profile of the final end-product.

Archroma is a **global color and specialty chemicals** company committed to innovation, world-class quality standards, high service levels, cost-efficiency and sustainability.

From fiber to finish, Archroma plays a key role throughout the entire textile supply chain, with special system solutions for spinning, sizing, pretreatment, optical brighteners, dyeing, printing and finishing.

At Archroma, **we share your passion for carpets**, and we bring our expertise, innovation power and our commitment to sustainability into developing cutting-edge technologies and products to support your needs.



Archroma has specialized Competence Centers bringing to our customers:

- A hub of knowledge, R&D, expertise, technology and creativity support;
- A wide range of testing and consulting services in the **synthetics & wool, carpets, cellulosics, printing, finishing & denim segments**;
- A complete system offering, thanks to our unique combination of expertise in spinning, pretreatment, coloration, as well as finishing;
- Access to global and regional knowledge and expert network for seamless support in global supply chain management;
- Powerful training centers for our affiliates, partners and customers.

At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

The majority of Archroma's products are certified by some of the most important eco-standards, such as:

- bluesign® • Oeko-Tex® • GOTS • ZDHC • REACH • EU Ecolabel • C2C • RSL • MRSL

Flexibility on demand

At the beginning of the textile chain, Archroma's spin finishes provide outstanding processing performance to all kinds of filaments and fibers. We combine our chemistry knowledge and yarn manufacturing

experience to develop our high performance and innovative **spin finishes and sizing systems**, aimed at addressing the specific demands of our customers.

Archroma's spinning agents

- Spin finish **Aflan®**
- Softener, lubricant and antistatic **Leomin®**

Archroma's sizing agents

- Sizing **Arkofil®**
- Additives **Trefix®**

BEST-IN-CLASS WHITES

A heritage of performance

With Archroma's **optical brightening agent systems**, you will be able to get the whiteness and the shade that you need, with high fastness level.

Archroma's optical brightening agents

- OBA for cellulose (CEL)
Leucophor® BSB liq (neutral bluish white)
Leucophor® BSBB liq (bluish white)
Leucophor® PC new liq (neutral reddish white)
- OBA for polyester (PES)
Ultraphor® HFN liq (neutral white)
Ultraphor® HFN liq (violet shade)
Ultraphor® ERE liq (neutral reddish)
- OBA for polyamide (PA) or wool
Ultraphor® PN liq (neutral white)
Ultraphor® PNB liq (bluish shade)
Ultraphor® PWC liq (neutral reddish)
- OBA for polyacrylonitrile (PAN)
Ultraphor® ACK liq (neutral white)
Ultraphor® ACKN liq (bluish shade)

/ COLORATION

1. POLYAMIDE

1.1 DYEING

Polyamide revolutionized the carpet industry and provides excellent durability and flexibility.

Archroma is a recognized leader in **integrated solutions for coloration**. Our portfolio includes systems designed to answer the specific requirements for all types of fiber goods.

Archroma's dyestuffs selection for exhaust, continuous dyeing, and direct print

Nylosan® E	Nylosan® N	Lanasyn® S & SD
• Metal free* elements • Migrating acid dyes with good levelling behavior • High light fastness	• Metal free* elements • Neutral dyeing acid dyes with good combinability • Good levelling behavior • High light fastness	• Metal complex elements • Lanasyne S mono-sulphonated dyes • Lanasyne SD di-sulphonated dyes • Good light and very good wet fastness
Standard combination ● Nylosan® Yellow E-2RL ● Nylosan® Red E-BNLC ● Nylosan® Blue E-BGL 200	Standard combination ● Nylosan® Yellow N-3RL ● Nylosan® Red N-2RBL ● Nylosan® Blue N-BLN	Standard combination ● Lanasyne® Yellow S-2GL ● Lanasyne® Red S-GA ● Lanasyne® Black S-GL
Additional elements ● Nylosan® Yellow E-4G 200 ● Nylosan® Violet E-2R 300 ● Nylosan® Blue E-2R 200 ● Nylosan® Blue E-2GL 200	Additional elements ● Nylosan® Yellow N-4GL ● Nylosan® Orange N-RL 250 ● Nylosan® Brill Blue N-FLB 180 ● Nylosan® Blue N-2RLA ● Nylosan® Blue N-5GL 200 ● Nylosan® Navy N-RBL 220 ● Nylosan® Green N-GL	Additional elements ● Lanasyne® Dark Brown S-GLN ● Lanasyne® Navy S-BLA ● Lanasyne® Navy SD-NL ● Lanasyne® Black SD-L 170

*below limits of detection according to industry standard test methods

Archroma's dyestuffs for polyamide differential dyeing

Differential coloration needs flair. For these cases, Archroma offers contrast dyes, which increase the depth of shade on the deep dyeable fibers, but only have a minimal influence on the regular, low and basic dyeable fibers, often used in differential-carpet constitutions.

Nylosan® E
● Nylosan® Yellow E-2RL ● Nylosan® Red E-BNLC ● Nylosan® Blue E-BGL 200
Contrast dyes ● Nylosan® Yellow S-L ● Nylosan® Red F-4BL ● Nylosan® Blue F-L 150

1.2 DISPLACE & RESERVE COLORATION

Nylosan® N-P is a unique dyestuff range! Metal free* dyes for the displace/reserve technique. This technique produces sharp, vivid and/or light print designs in combination with dark ground shades and a good fixation behavior which result in high wet fastness.

Metal-free dyestuffs potentially allows **fiber recycling** or **ecologically** more acceptable carpet disposal. No heavy-metal load of all wastes.

Archroma's displace & reserve coloration metal free* dyestuffs

Metal free* dyes	Standard combination elements for ground shades	Additional bright elements	Standard combination elements for prints
	● Nylosan® Yellow N-PC ● Nylosan® Red N-PB ● Nylosan® Blue N-P	● Nylosan® Yellow F-7GL ● Nylosan® Yellow S-L ● Nylosan® Red S-GS ● Nylosan® Red F-4BL ● Nylosan® Violet F-BL 180 ● Nylosan® Blue F-2RFL 160 ● Nylosan® Brill Green F-6GLN	● Nylosan® Yellow E-2RL ● Nylosan® Red E-BNLC ● Nylosan® Violet E-2R 300 ● Nylosan® Blue E-2R 200 ● Nylosan® Blue E-BGL 200 ● Nylosan® Blue E-2GL 200

*below limits of detection according to industry standard test methods

Archroma's dyeing auxiliaries for displace print

GROUND DYEING WITH PADDER (PICK-UP MAX: 100%)	
• Acid buffer Opticid® PB liq • Levelling Lyogen® NH liq	• Wetting, antifrosting Lyogen® WAFN liq • Acid donor Opticid® VS liq c
PRINT RECOMMENDATION	
• Antifoam Antimussol® HT2S liq • Acid buffer Opticid® PB liq	• Displace Thiotan® TRN liq • Repeat controller Cartax® DP liq

Archroma's dyeing auxiliaries for reserve print

PRINT RECOMMENDATION	
• Antifoam • Antimussol® HT2S liq • Acid buffer • Opticid® PB liq	• Reserve • Optifix® RSL liq • Repeat controller • Cartax® DP liq
GROUND DYEING WITH APPLICATOR (PICK-UP 200%-300%)	
• Acid buffer • Opticid® PB liq • Acid donor • Opticid® VS liq c	• Levelling • Lyogen® NH liq • Wetting, antifrosting • Lyogen® WAFN liq



1.3 JET PRINT

Jet-print is a printing system using computer controlled high speed valves and is revolutionary in its ability to create unlimited pattern repeats. Deepest color penetration and excellent print definition are achieved by optimizing the use of electronics, mechanics and chemistry. In this regard the following dyestuff selection shows the highest wet and light fastness possibilities and is therefore suitable for domestic and contract qualities. The compact range covers the whole shade area from brilliant to black.

Archroma's dyestuffs for jet-print

Metal free*, high fastness level	Metal free*, levelling	Metal complex dyes
Standard combination	Standard combination	Standard combination
● Nylosan® Yellow F-76L	● Nylosan® Yellow E-2RL	● Lanasyne® Yellow S-2GL
● Nylosan® Scarlet F-3GL 130	● Nylosan® Red E-BNLC	● Lanasyne® Red S-GA
● Nylosan® Red F-4BL	● Nylosan® Blue E-BGL 200	● Lanasyne® Black S-GL
● Nylosan® Red F-5B 150		
● Nylosan® Green F-BLN	Additional elements	Additional elements
● Nylosan® Brill Green F-6GLN	● Nylosan® Yellow E-4G 200	● Lanasyne® Dark Brown S-GLN
● Nylosan® Blue F-2RFL 160	● Nylosan® Violet E-2R 300	● Lanasyne® Navy S-BLA
● Nylosan® Blue N-5GL 200	● Nylosan® Blue E-2R 200	● Lanasyne® Navy SD-NL
Additional elements		● Lanasyne® Black SD-L 170
● Nylosan® Yellow S-L		
● Nylosan® Orange S-3R		

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Archroma's dyeing auxiliaries for jet-print

● Acid buffer	● Levelling
● Opticid® PB liq	● Lyogen® WAFN liq
● Antifoam	● Thickener
● Antimussol® HT2S liq	● Lutetal® GP Eco p



1.4 AUTOMOTIVE

From the coloristic point of view, automotive articles must mainly fulfil the demand of severe hot light fastness and to be free of metamerism.

Archroma's dyestuffs selection for automotive

Metal complex dyes
Standard combination
● Lanasyne® Yellow 4R c
● Lanasyne® Bordeaux RLA c
● Lanasyne® Black S-GL
Additional elements
● Lanasyne® Yellow 2GLN 250
● Lanasyne® Blue A-GLD 200
● Lanasyne® Black SD-L 170

Archroma's dyeing auxiliaries for automotive

● Acid buffer	● Anti-frost
● Opticid® PB liq	● Lyogen® WAFN liq
● Acid donor	● Levelling
● Opticid® VAN liq c	● Lyogen® NH liq
● Opticid® VS liq c	● Light fastness improver
● Antifoam	● Fadex® PA liq
● Antimussol® HT2S liq	



Discover Archroma Automotive portfolio & system solutions in our [“Passion for Automotive” brochure](#).

2. WOOL & WOOL/POLYAMIDE BLENDS

Wool has been woven for centuries into rugs and carpet and is a 100% renewable resource.

In carpet manufacture, unlike many other substrate forms, the determination of levelness is only made when

the final article is made – by which time if it appears uneven, it is beyond repair and has also undergone many additional expensive operations (e.g. winding, weaving, backing, etc.). The need for different dye classes is born out by the balance between levelling and fastness.

Archroma's dyestuffs selection for exhaust, continuous dyeing, and direct print

Nylosan® E	Nylosan® N	Lanasyn® S & SD
• Metal free* elements • Migrating acid dyes with good levelling behavior • High light fastness	• Metal free* elements • Neutral dyeing acid dyes with good combinability	• Metal complex elements • Lanasyn® S mono-sulphonated dyes • Lanasyn® SD di-sulphonated dyes • Good light and very good wet fastness
Standard combination • Nylosan® Yellow E-2RL • Nylosan® Red E-BNLC • Nylosan® Blue E-BGL 200	Standard combination • Nylosan® Yellow N-3RL • Nylosan® Red N-GRL • Nylosan® Blue N-GLN	Standard combination • Lanasyn® Yellow S-2GL • Lanasyn® Red S-GA • Lanasyn® Black S-GL
Additional elements • Nylosan® Yellow E-4G 200 • Nylosan® Violet E-2R 300 • Nylosan® Blue E-2R 200 • Nylosan® Blue E-2GL 200	Additional elements • Nylosan® Yellow N-4GL • Nylosan® Red N-2RBL • Nylosan® Brill Blue N-FLB 180 • Nylosan® Blue N-2RLA • Nylosan® Blue N-5GL 200 • Nylosan® Blue N-BLN • Nylosan® Navy N-RLD 200 • Nylosan® Green N-GL • Nylosan® Black N-B	Additional elements • Lanasyn® Dark Brown S-GLN • Lanasyn® Navy S-BLA • Lanasyn® Navy SD-NL • Lanasyn® Black SD-L 170

*below limits of detection according to industry standard test methods



Archroma's dyeing auxiliaries for wool & wool/polyamide blends

- Antifoam
- Antimussol® HT2S liq
- Acid donor
- Opticid® VS liq c
- Opticid® VAN liq c
- Acid buffer
- Opticid® PB liq
- Opticid® PSD liq c
- Levelling
- Lyogen® PAM liq
- Lyogen® NH liq
- Reserve
- Thiotan® RMFN ECO liq
- Thickener for jet-print
- Lutexal® GP Eco p
- Wetting, antifrosting
- Lyogen® WAFN liq

3. SILK

A silk carpet has a rich sheen and a unique luster. Silk has very similar dyeing properties to PA fiber and is generally dyed with acid and metal complex dyes.

Drimaren® K reactive dyes are also used in specific cases such as brilliant dark shades.

Archroma's dyestuffs selection for exhaust dyeing

Nylosan® N	Lanasyn® S & SD	Drimaren® selection
• Metal free* elements • Neutral dyeing acid dyes with good combinability	• Metal complex elements • Lanasyn® S mono-sulphonated dyes • Lanasyn® SD di-sulphonated dyes • Good light and very good wet fastness	• Reactive dyes • Brilliant dark shades
Standard combination • Nylosan® Yellow N-3RL • Nylosan® Red N-GRL • Nylosan® Blue N-GLN	Standard combination • Lanasyn® Yellow S-2GL • Lanasyn® Red S-GA • Lanasyn® Black S-GL	Standard combination • Drimaren® Yellow K-4G • Drimaren® Yellow K-2R • Drimaren® Red K-4BL • Drimaren® Blue K-2RL • Drimaren® Navy HF-GN
Additional elements • Nylosan® Yellow N-4GL • Nylosan® Red N-2RBL • Nylosan® Brill Blue N-FLB 180 • Nylosan® Blue N-2RLA • Nylosan® Blue N-5GL 200 • Nylosan® Blue N-BLN • Nylosan® Navy N-RLD 200 • Nylosan® Green N-GL • Nylosan® Black N-B	Additional elements • Lanasyn® Dark Brown S-GLN • Lanasyn® Navy S-BLA • Lanasyn® Navy SD-NL • Lanasyn® Black SD-L 170	

*below limits of detection according to industry standard test methods

Archroma's dyeing auxiliaries for silk

- Antifoam
- Antimussol® HT2S liq
- Levelling
- Lyogen® NH liq
- Lyogen® PAM liq
- Acid donor
- Opticid® VS liq c
- Opticid® VAN liq c
- Acid buffer
- Opticid® PB liq
- Opticid® PSD liq c
- Wetting, antifrosting:
- Lyogen® WAFN liq



4. POLYESTER (PET, PTT, PBT, PLA)

Due to the requirements of high fixation at temperatures between 100° and 120°C (and sometimes even up to 130°C) combined with high light fastness and sufficient migration, the selected Foron® E, Foron® E-RD and Dorospers® A dyestuffs fulfil those requirements for

Archroma's disperse dyestuffs selection for exhaust, continuous dyeing, and rotary printing

Disperse dyes for PES carpet processing

- High light fastness

Standard combination

- **Dorospers® Yellow A-GLW c**
- **Foron® Brill Red E-2BL 200**
- **Foron® Blue E-BL 150**

Additional elements

- **Foron® Yellow E-RD**
- **Foron® Red E-RD**
- **Foron® Blue E-RD**

the dyeing of polyester carpets for both exhaust and continuous processing. Furthermore, modern polyester fiber retains its shape well, and it is highly stain resistant making it very easy to clean.

Archroma's dyeing auxiliaries polyester (PES)

- Antifoam
Antimussol® HT2S liq
- Acid buffer
Opticid® PB liq
Opticid® PSD liq c
- Dispersing
Lyocot® RDN liq
- Levelling
Eganal® X-ACT liq
- Accelerant
Dilatin® POE liq
- Thickener for jet-print
Lutexal® GP ECO p
- Wetting, antifrosting
Lyogen® WAFN liq

5. ACRYLIC

Acrylic is a fine, soft and luxurious yarn. This man-made fiber gives the appearance and touch of wool. It dyes well and allows bright colors.

Archroma's dyestuffs for acrylic dyeing

Doracryl®

- Brilliant shades
- Good wet fastness
- **Doracryl® Yellow X2GLS 300**
- **Doracryl® Yellow XGRL 200**
- **Doracryl® Golden Yellow XGFLS 200**
- **Doracryl® Red GL 100**
- **Doracryl® Red XGRLS 200**
- **Doracryl® Blue X3GLS 300**
- **Doracryl® Blue XFGRL 200**
- **Doracryl® Black FBL 200**

Archroma's dyeing auxiliaries for acrylic

- Antifoam
Antimussol® HT2S liq
- Wetting
Ekalin® F liq
Leonil® EHC liq c
- Washing
Kieralon® F-MFB liq
- Acid buffer
Opticid® PSD liq c



6. CELLULOSIC FIBERS

6.1 COTTON, VISCOSE

Carpet fibers are most often synthetic, but you can also find them made from cellulosic fibers, which are usually

selected due to its possibility to be washed regularly, providing a very good wet fastness performance.

Archroma's exhaust dyes for cellulose

Diresul® Ultimate HD/ES reactive dyes	Drimaren® Ultimate HF reactive dyes selection
- Dark shades - High level of dye standardization - High solubility and solution stability in the dye bath - Excellent fastness properties - High build-up, low salt	- Pale to medium shades - High light fastness in pastel and earth tone shades
- Drimaren® Ultimate Yellow HD - Drimaren® Ultimate Amber HD/ES - Drimaren® Ultimate Crimson HD-N - Drimaren® Ultimate Carmine ES - Drimaren® Ultimate Rubine HD - Drimaren® Ultimate Dark Blue HD - Drimaren® Ultimate Navy HD-G - Drimaren® Ultimate Navy HD-XF - Drimaren® Ultimate Night Sky HD/ES - Drimaren® Ultimate Black HD/ES	- Drimaren® Ultimate Yellow HF-LP - Drimaren® Ultimate Red HF - Drimaren® Ultimate Blue HF-RL
	Drimaren® K reactive dyes selection
	- Suitable for brilliant shades - High wet fastness
	- Drimaren® Yellow K-4G - Drimaren® Orange K-3R - Drimaren® Red K-4BL - Drimaren® Red K-8B - Drimaren® Violet K-2RL

Archroma's auxiliaries for cellulose

- Antifoam - Antimussol® UDF liq - Wetting, deaerating - Leonil® EHC liq c - Primasol® NF liq - Lubricant - Imacol® C3G liq - Imacol® X-JET liq	- Sequestering - Dekol® 2005 liq c - Dekol® 1097 N liq - Dekol® SN 100 liq c - Washing-off - Cyclanon® XC-W New liq - Ladipur® RSK liq - Multifunctional product - Humectol® C liq hc	- Dyestuff protection - Revatol® NS liq c - Levelling - Drimagen® E3R liq - Wet fastness improver - Optifix® RSL liq - Optifix® EC liq - Optifix® F liq - Optifix® E50 liq	- Rubbing fastness improver - Optifix® RUB liq - Chlorine fastness improver - Optifix® CLC liq - UV absorber - Rayosan® C pa
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Discover Archroma printing portfolio & system solutions in our "Passion for Printing" brochure.

6.2 BAST FIBERS

Archroma's dyestuffs for exhaust & continuous dyeing

Diresul® RDT
- Diresul® Yellow RDT-E liq - Diresul® Olive Yellow RDT-Y liq - Diresul® Orange RDT-3G liq - Diresul® Brown RDT-ZN liq - Diresul® Brown RDT-ZFW liq - Diresul® Brown RDT-ZS 150 liq - Diresul® Brown RDT-R liq - Diresul® Bordeaux RDT-6R 120 liq - Diresul® Red RDT-BG liq - Diresul® Brilliant Green RDT-H liq - Diresul® Green RDT-N liq - Diresul® Olive RDT-B 150 liq - Diresul® Blue RDT-2G 150 liq - Diresul® Blue RDT-3R 80 liq - Diresul® Navy RDT-GF 150 liq - Diresul® Caribbean Blue RDT liq - Diresul® Pacific Blue RDT liq - Diresul® Arctic Blue RDT liq - Diresul® Indiblu RDT-G liq - Diresul® Indiblu RDT-R liq - Diresul® Indiblack RDT-2R liq - Diresul® Indinavy RDT-B liq - Diresul® Smartdenim Blue liq - Diresul® Blue Black RDT-2B liq - Diresul® Black RDT-2KS liq - Diresul® Fast Black RDT liq - Diresul® Black RDT-K liq

> Spotlight on **SIMPLY THE BAST**, a coloration system for creating dark shades on coarse fibers with enhanced light fastness, and reduced resources and time

> Spotlight on **LOVE NATURE X EARTHCOLORS**, a efficient dyeing system based on upcycled plant waste for colors inspired by nature that preserve its precious resources

- Reducing - Reducing Agent DST liq - Dispersing - Setamol® WS p - Softener - Ceralube® SVN liq	- Sequestering - Dekol® 2005 liq c - Wetting - Leonil® EHC liq c
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Archroma's dyeing auxiliaries & softeners



Innovative and tailor-made solutions

At home, at the office, in public areas, hotels, airplanes or cars, carpets and textile ground coverings must fulfill strict requirements for soil release, water repellence, hygiene or wear-resistance whilst meeting the demands of color, design and comfort.

Archroma's system solutions for carpets have been designed to take up the challenge.

Archroma's performance and added value solutions

Protection	Functional coating
Fluorine free* water repellent	Water-based solvent free polymers for dimensional stabilization
Smartrepel® Hydro	
Repellency & soil release	Appretan® Lurapret® Texapret®
Nuva® N	
Flame retardant	Softening
Pekoflam®	Softness improvers
Yellowing protection	Leomin®
Umidol®	Ceranine®
	Ceralube®
	Cepreton®
Antistatic	Finishing specialties & additives
Elfugin® AKT liq	Foaming
Antimicrobial hygiene function	Kieralon® SAS 30 liq
Sanitized®	Afilan® AS-OS1 liq
	Afilan® AO1 liq
Odor neutralization	
Sanitized® Odorex (OA10, OX20)	

*Yellow limits of detection according to industry standard test methods



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...and discover more about our
SYSTEMS SOLUTIONS for carpet

/ THE ARCHROMA WAY TO A SUSTAINABLE WORLD

Safe, efficient, enhanced. It's our nature.

Safe – It's our nature to protect. A solid core:
Our deeply rooted goal to protect people and our planet.
Safe to use, safe to release and also safe to wear.

Efficient – It's our nature to rethink sustainable manufacturing. Innovating application processes that minimize resources and maximize productivity, both in our and our customers' manufacturing as well as by setting ourselves ambitious sustainability goals.

Enhanced – It's our nature to add another level of value. Innovation is critical. With it, we create additional effects, functionalities and aesthetics and sustainable differentiation to bring additional value, helping consumers to achieve their goals, for a life enhanced.



Ask your Archroma representatives for additional information on our solution systems

*below limits of detection according to industry standard test methods



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