

Fiber Selection



A range of colors is just the beginning.

Universal offers a range of fiber types to meet your specific desires and parameters.

Nylon 6: 100% solution-dyed nylon 6 offers rich color variations for the transportation, corporate, hospitality and carpet industries.

Nylon 6,6: 100% solution-dyed nylon 6,6 offers superior performance combined with a slightly different polymer chemistry. Nylon 6,6 is preferred for institutional and recreational industries.

PTT: Combining the economy of polyester with the resilience of nylon, PTT offers inherent stain resistance. Antimicrobial protection is available. 100% solution-dyed.

HPB: Outstanding flame-retardant characteristics and complete stain resistance make HPB the quintessential safe choice. 100% solution-dyed.

PET: An outstanding choice for the price conscious, PET is inherently stain resistant. 100% solution-dyed.

Performance[®]

Polymer	PET	PTT	HPB	Nylon 6	Nylon 6,6
Radiant Panel FR Test / Wcm⁻² ASTM E648	0.32	0.27 - 0.45	0.52	0.73	0.78
Methenamine Pill FR Test ASTM D2859	Pass	Pass	Pass	Pass	Pass
Red 40 Stain AATCC TM 174 (1 = worst, 10 = best)	9.5 - 10	9.5 - 10	9.5 - 10	1	>8
Oil Stain Resistance UFS Test Method (1 = worst, 10 = best)	1	1	8	8	8
Coffee Stain Resistance UFS Test Method (1 = worst, 10 = best)	9	9	8	2	2
Hexapod Wear Test ASTM D5252 % Pile Height Retention 50,000 cycles, Non-Heatset Yarn	50	65	55	73	77
Hexapod Wear Test ASTM D5252 % Pile Height Retention 50,000 cycles, Heatset Yarn	75	in testing	75	in testing	in testing
Chair Castor Test ASTM D6962 Appearance Retention 25,000 Cycles, Non-Heatset Yarn 1 = worst, 5 = best	2	3	3	4	4

All testing done on 20 oz. face-weight, level-loop construction carpet, latex backing.

* PTT Radiant Panel FR test: 0.27 Wcm⁻², no flame retardant additive.
0.45 Wcm⁻², with flame retardant additives.





Prisma[®]

Solution-dyed

Prisma[®] is a *100% solution-dyed color accent* using 200 and 300 denier effect yarns.

The genius of this product is its combination of the *appearance and colors of textile yarns* with the *performance and durability of carpet yarns*. Prisma allows you to enjoy both fine details and *excellent recovery and wear characteristics*. With over 250 colors to choose from, as well as thousands of combined colors, Prisma offers detail, durability and the selection you want.



www.universalfibers.com

Product Specifications

Prisma[®] Solution-dyed

Prisma	Nylon 6	Nylon 6,6
Available Core Yarn Polymer	Yes	Yes
Multiples of Denier	750, 200/300 wrap	600, 200/300 wrap
Number of Mergeable Colors Available	0	120
Number of Universal Color Shades	260, 15 stock wrap shades	260, 15 stock wrap shades
Core Available as a Natural (Dyeable) Yarn	Yes	Yes
Core Available as a Hot Air Jet Textured Yarn	Yes	Yes
Core Available as a Mechanical Crimp Textured Yarn	Yes	Yes
SUPERBA [®] Heat Set	Available	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal with round wrap	Trilobal with round wrap
Inherent Acid Stain Resistance (Overdyeable)	Available	Standard
Colors with 80% (avg) Postindustrial Recycled Content	0	66
Interior Carpet UV Resistance	Standard	Standard
Industry-Leading Low Soil/Easy Clean	Standard	Standard
Antistatic Protection		
<3.5 kV	Available	Available
<2 kV	Available	Available
Antimicrobial Protection		
Zinc Oxide	Standard	Standard
Silver or Custom	Available	Available
Radiant Panel FR	Class 1	Class 1



Reflection[®]

Solution-dyed

With its *sparkling optics* and *eye-catching beauty*, Reflection is an *ideal fiber* for carpets in the entertainment, hospitality and corporate segments. Reflection is *100% solution-dyed* and offers proprietary high performance with a *reflective cross section* filament and metallic structure.



Product Specifications

Reflection[®] Solution-dyed

Reflection	Nylon 6	Nylon 6,6
Available Core Yarn Polymer	Yes	Yes
Multiples of Denier	750	600 Custom
Number of Mergeable Colors Available	0	120
Number of Universal Color Shades	260	260
Core Available as a Natural (Dyeable) Yarn	Yes	Yes
Core Available as a Hot Air Jet Textured Yarn	Yes	Yes
Core Available as a Mechanical Crimp Textured Yarn	Yes	Yes
SUPERBA [®] Heat Set	Available	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal with flat wrap	Trilobal with flat wrap
Inherent Acid Stain Resistance (Overdyeable)	Available	Standard
Colors with 80% (avg) Postindustrial Recycled Content	0	66
Interior Carpet UV Resistance	Standard	Standard
Industry-Leading Low Soil/Easy Clean	Standard	Standard
Antistatic Protection		
<3.5 kV	Available	Available
<2 kV	Available	Available
Antimicrobial Protection		
Zinc Oxide	Standard	Standard
Silver or Custom	Available	Available
Radiant Panel FR	Class 1	Class 1



SilkWorks®

Solution-dyed



SilkWorks® masterfully creates the appearance of *complex wool* and soft, *elegant silk* fabrics, while delivering the *durability* to withstand the demands of the commercial carpet industry. This fine denier yarn not only prevents the material from looking synthetic, but also allows you to present the tonal color changes found in natural fibers.

Thus you have the ability to introduce *bright accents* that are as obvious or subtle. 100% solution-dyed fiber.



www.universalfibers.com

Product Specifications

Silkworks®

Solution-dyed

SilkWorks	Nylon 6	Nylon 6,6
Available Core Yarn Polymer	Yes	Yes
Multiples of Denier	750, 15 200 denier inserts	750, 15 200 denier inserts
Number of Mergeable Colors Available	0	120
Number of Universal Color Shades	260	260
Core Available as a Natural (Dyeable) Yarn	Yes	Yes
Core Available as a Hot Air Jet Textured Yarn	Yes	Yes
Core Available as a Mechanical Crimp Textured Yarn	Yes	Yes
SUPERBA® Heat Set	Available	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal with round insert	Trilobal with round insert
Inherent Acid Stain Resistance (Overdyeable)	Available	Standard
Colors with 80% (avg) Postindustrial Recycled Content	0	66
Interior Carpet UV Resistance	Standard	Standard
Industry-Leading Low Soil/Easy Clean	Standard	Standard
Antistatic Protection		
<3.5 kV	Available	Available
<2 kV	Available	Available
Antimicrobial Protection		
Zinc Oxide	Standard	Standard
Silver or Custom	Available	Available
Radiant Panel FR	Class 1	Class 1



Nylon 6,6

Solution-dyed

Universal's 100% solution-dyed *Nylon 6,6* offers *superior performance* combined with a slightly different polymer chemistry. Nylon 6,6 is the fiber of choice for *institutional* and *recreational industries*.

Product Specifications

Nylon 6,6

Solution-dyed

Nylon 6,6	
Available Core Yarn Polymer	Nylon 6,6
Multiples of Denier	600
Number of Mergeable Colors Available	120
Number of Universal Color Shades	260
Core Available as a Natural (Dyeable) Yarn	Custom
Core Available as a Hot Air Jet Textured Yarn	Yes
Core Available as a Mechanical Crimp Textured Yarn	Yes
SUPERBA® Heat Set	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal
Inherent Acid Stain Resistance (Overdyeable)	Standard
Colors with 80% (avg) Postindustrial Recycled Content	66
Interior Carpet UV Resistance	Standard
Industry-Leading Low Soil/Easy Clean	Standard
Antistatic Protection	
<3.5 kV	Available
<2 kV	Available
Antimicrobial Protection	
Zinc Oxide	Standard
Silver or Custom	Available
Radiant Panel FR	Class 1



Nylon 6

Solution-dyed



Universal's 100% solution-dyed *Nylon 6* offers *rich color variations* for the *transportation, corporate, hospitality* and *carpet* industries.

Product Specifications

Nylon 6

Solution-dyed

Nylon 6	
Available Core Yarn Polymer	Nylon 6
Multiples of Denier	750
Number of Mergeable Colors Available	120
Number of Universal Color Shades	260
Core Available as a Natural (Dyeable) Yarn	Custom
Core Available as a Hot Air Jet Textured Yarn	Yes
Core Available as a Mechanical Crimp Textured Yarn	Yes
SUPERBA® Heat Set	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal
Inherent Acid Stain Resistance (Overdyeable)	Available
Colors with 80% (avg) Postindustrial Recycled Content	0
Interior Carpet UV Resistance	Standard
Industry-Leading Low Soil/Easy Clean	Standard
Antistatic Protection	
<3.5 kV	Available
<2 kV	Available
Antimicrobial Protection	
Zinc Oxide	Standard
Silver or Custom	Available
Radiant Panel FR	Class 1



PET

Solution-dyed



An *outstanding* choice for the *price conscious*, PET is inherently *stain resistant*, and 100% solution-dyed fiber.

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Product Specifications

PET

Solution-dyed

PET	
Available Core Yarn Polymer	PET
Multiples of Denier	Please Call
Number of Mergeable Colors Available	0
Number of Universal Color Shades	50
Core Available as a Natural (Dyeable) Yarn	Custom
Core Available as a Hot Air Jet Textured Yarn	Yes
Core Available as a Mechanical Crimp Textured Yarn	No
Heat Set	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal
Inherent Acid Stain Resistance (Overdyeable)	Standard
Colors with 80% (avg) Postindustrial Recycled Content	0
Interior Carpet UV Resistance	Standard
Industry-Leading Low Soil/Easy Clean	Standard
Antistatic Protection	
<3.5 kV	Available
<2 kV	Available
Antimicrobial Protection	
Zinc Oxide	Standard
Silver or Custom	Available
Radiant Panel FR	Class II: Standard Class I: Available



PTT

Solution-dyed



Combining the *economy of polyester* with the *resilience of nylon*,

PTT offers inherent stain resistance. Antimicrobial protection is available. 100% solution-dyed fiber.



Product Specifications

PTT
Solution-dyed

PTT	
Available Core Yarn Polymer	PTT
Multiples of Denier	Please Call
Number of Mergeable Colors Available	0
Number of Universal Color Shades	50
Core Available as a Natural (Dyeable) Yarn	Custom
Core Available as a Hot Air Jet Textured Yarn	Yes
Core Available as a Mechanical Crimp Textured Yarn	No
Heat Set	Available
Yarn Package Put-Up	Minimum 7 lb (3.2 kg) Maximum 13.5 lb (6.1 kg)
Cross Section	Trilobal
Inherent Acid Stain Resistance (Overdyeable)	Standard
Colors with 80% (avg) Postindustrial Recycled Content	0
Interior Carpet UV Resistance	Standard
Industry-Leading Low Soil/Easy Clean	Standard
Antistatic Protection	
<3.5 kV	Available
<2 kV	Available
Antimicrobial Protection	
Zinc Oxide	Available
Silver or Custom	Available
Radiant Panel FR	Class II: Standard
	Class I: Available

