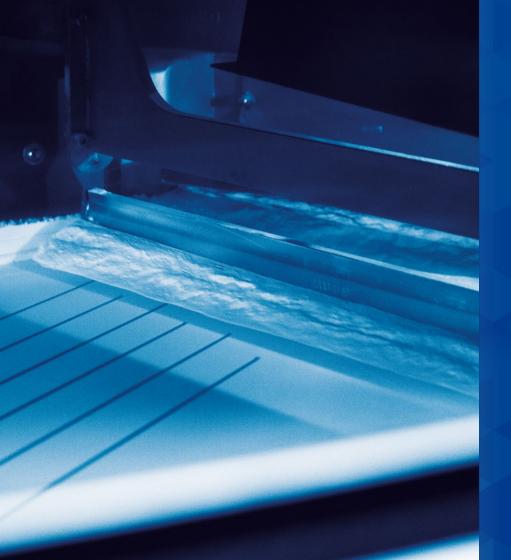


Innovating Additive Manufacturing



At Forward AM, we accompany you from first idea to final printed part. Our portfolio includes materials and solutions for all major Additive Manufacturing technologies - from powders to plastic and metal filaments to photopolymers.

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POWDER BED FUSION

Explore the Ultrasint® line of performance polymers that are perfectly adapted to scaled Additive Manufacturing production for any application.

Mechanical Properties Comparison

| | | PP Line | | | PA11 Line | | | | TPU | Line | | | |
|---|----|---------------|-----------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------|--------------------|----------------------|--------------------|--|--|
| | | PP 1400 Black | PA11 (Conditioned) | PA11 Black (Conditioned) | PA11 CF (Conditioned) | PA11 rCF (Conditioned) | PA11 ESD (Conditioned) | TPU01 for HP MJF | TPU 88A | TPU 88A Black | TPU 90A LT | | |
| HDT A [°C] ISO 75-2 | | 62 | 76 | 62 | 151 | 182 | 111 | 97 ⁽³⁾ | 98 ⁽³⁾ | 101,7 ⁽³⁾ | | | |
| HDT B [°C] ISO 75-2 | | 102 | 176 | 177 | 189 | 191 | 186 | | | | | | |
| Shore A Hardness DIN ISO 7619-1 | | - | - | - | - | - | - | 88-90 | 88-90 | 86-88 | 90 | | |
| Tensile Strength [MPa] | XY | 29 | 45 | 45 | 71 | 69 | 55 | 9 | 8 | 8 | 9 | | |
| ISO 527-2 (23 °C) | ZX | 29 | 46 | 45 | 48 | 42 | 47 | 7 | 7 | 5 | 7 | | |
| Elongation at Break [%] | XY | 25 | 45 | 42 | 11 | 10 | 22 | 280 (1) | 270 ⁽¹⁾ | 360 ⁽¹⁾ | 280 (1) | | |
| ISO 527-2 (23 °C) | ZX | 25 | 31 | 34 | 17 | 9 | 31 | 150 ⁽¹⁾ | 130 ⁽¹⁾ | 100 ⁽¹⁾ | 120 ⁽¹⁾ | | |
| E Modulus [MPa] | XY | 1250 | 1100 | 1150 | 4500 | 4300 | 2300 | 85 ⁽²⁾ | 75 ⁽²⁾ | 85 ⁽²⁾ | 110 ⁽¹⁾ | | |
| ISO 527-2 (23 °C) | ZX | 1300 | 1250 | 1200 | 2000 | 1750 | 1500 | - | - | - | | | |
| Charpy Impact Strength (notched) [kJ/m²] | XY | 4,0 | 8,3 | 11 | 6,7 | 7,2 | 7,3 | No break | No break | No break | No break | | |
| ISO 179-1 | ZX | 4,0 | 4,5 | 11 | 4,7 | 2,7 | 5,3 | No break | No break | No break | No break | | |
| Charpy Impact Strength (unnotched) [kJ/m²] | XY | 34 | 198 | No break | 63 | 52 | 101 | - | - | - | - | | |
| ISO 179-1 | ZX | 28 | 85 | 75 | 51 | 38 | 107 | - | - | - | - | | |

Printer Compatibility

| | | PP Line | | | PA11 Line | | | | TPU | Line | |
|------------------------|---|---------------|------|------------|-----------|----------|----------|---------------------|---------|---------------|------------|
| ■ Compatib □ Open para | le ameter kit required | PP 1400 Black | PA11 | PA11 Black | PA11 CF | PA11 rCF | PA11 ESD | TPU01 for HP MJF | TPU 88A | TPU 88A Black | TPU 90A LT |
| НР | 5200 Series | | | | | | | • | | | |
| Prodways | P1000 / P1000 S / P1000 X | | | | | | | | | | |
| 3D Systems | Sinterstation / Vanguard / sPro 60 | | | | | | | | | | |
| Nexa3D | QLS 230 / QLS 236 / QLS 260 / XYZprinting MfgPro Series | | • | | | | | | | | |
| _ | Flight Series | | | | | | | | | | |
| Farsoon | 252P Series / 403P Series / eForm | | | | | | | | | | |
| EOS | P1 Series / P3 Series / P7 Series | | | | | | | | | | |

Tests & Certification Summary

| | | PP Line | | | PA11 Line | | | | TPU | Line | |
|--|---|---------------|------|------------|-----------|----------|----------|---------------------|---------|---------------|------------|
| ■ Statement Available ■ Test in Progress | | PP 1400 Black | PA11 | PA11 Black | PA11 CF | PA11 rCF | PA11 ESD | TPU01 for HP MJF | TPU 88A | TPU 88A Black | TPU 90A LT |
| ıts | Skin Contact | • | | | | | | | | | |
| atemer | USP Class IV | | • | | | | | | | | |
| Product Statements | Food Contact | | | | | | | | | | |
| Pro | UL Blue Card | | | | | | | • | | | |
| вu | Long Term Heat Aging | | | | | | | | | | |
| ic Testi | UV Resistance ISO 4892-2 | | | | | | | | | | |
| Specif | Hydrolysis Resistance | | | | | | | • | | | |
| Application Specific Testing | Air Tightness / Burst Pressure | | | | | | | | | | |
| App | Temperature Performance High Temperature Mechanicals | | • | | | | | • | | | |

| | | PP Line | | PA11 Line | | | TPU Line | | | | |
|---------------------|--|---------------|------|------------|---------|----------|----------|---------------------|---------|---------------|------------|
| | | PP 1400 Black | PA11 | PA11 Black | PA11 CF | PA11 rCF | PA11 ESD | TPU01 for HP MJF | TPU 88A | TPU 88A Black | TPU 90A LT |
| | Specific Volume Resistivity IEC 62631-3-1 | • | | | | | | | | | |
| Electrical | Specific Surface Resistivity IEC 62631-3-2 | • | • | | | | | | | | |
| Elect | Dielectric Strength IEC 60234-1 | | | | | | | | | | |
| | CTI IEC 60112 | | | | | | | | | | |
| | Fatigue Rossflex | | | | | | | | | | |
| me | Flammability UL 94 | • | • | | | | | • | | | |
| Flame Retardance | Flammability FMVSS 302 | | | | | | | | | | |

Sustainability Summary

| | | PP Line | | | PA11 Line | | | | TPU | Line | |
|---|-------------------------------|---------------|-------|------------|-----------|----------|----------|---------------------|---------|---------------|------------|
| ■ Currently Available□ In Progress | | PP 1400 Black | PA11 | PA11 Black | PA11 CF | PA11 rCF | PA11 ESD | TPU01 for HP MJF | TPU 88A | TPU 88A Black | TPU 90A LT |
| | Recyclable | | | | | | | | | | |
| | Refresh Rate (Old/New in %) * | 60/40 | 50/50 | 50/50 | 50/50 | 50/50 | 50/50 | 80/20 | 80/20 | 80/20 | 80/20 |
| | Take Back Program | | | | | | | | | | |
| | Life Cycle Assessment | • | • | | | | | • | | | |
| | Carbon Compensation | | | | | | | | | | |

^{*}Typical value. The exact refresh rate depends on the machine type and printing technology, processing parameters, material usage intensity, packing density, part geometry and individual part property requirements.

Life Cycle Assessment (LCA): Study that calculates how much environmental impact is associated with every step of a product. The environmental score for these materials is representative of the stages of "Raw material extraction and production" and "Material preparation for 3D printing".

Carbon Compensation: A strategy to reduce carbon emissions by investing in practices that absorb or mitigate CO2.

Take Back Program: The collection of powder and end parts to reduce plastic waste and promote sustainability.

Refresh Rate: minimum ratio of fresh / virgin powder one needs to add to your pre-used, unsintered powder to maintain its best printing quality.

Post-Processing Summary

| | PP Line | | | PA11 Line | | | | TPU | Line | |
|---------------------|---------------|------|------------|-----------|----------|----------|---------------------|---------|---------------|------------|
| ■ Compatible | PP 1400 Black | PA11 | PA11 Black | PA11 CF | PA11 rCF | PA11 ESD | TPU01 for HP MJF | TPU 88A | TPU 88A Black | TPU 90A LT |
| Chemical Smoothing | • | | | | | | • | | | |
| Ultracur3D® Coat F+ | | | | | | | • | | | |
| Dyeing | | | | | | | | | | |

Materials enabled by BASF

Available through Printer Manufacturers



HP 3D HR PP



FLEXA Performance PA11 Onyx PA11 CF PA11 ESD



Ultrasint® PP 1400 Black

Technology:

Color:

Powder Bed Fusion

Black

Machine Compatibility:

SLS machines equipped with roller recoater

Farsoon - Prodways - 3D Systems - Alternative laser systems (e.g. diode or fiber lasers)



Easy to Process Time and cost savings



Isotropic Behaviour

Facilitates data preparation and gives printing flexibility



Chemical Resistance

Ideal for media flow and storage parts

Ultrasint® PP 1400 Black

Suited for:







Transportation Industrial



Automotive

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|-----------|-------------|
| Charpy Impact Strength Unnotched (kJ/m²) | ISO 179-1 | 34 / 28 |
| E-Modulus (MPa) | ISO 527-2 | 1250 / 1300 |
| Tensile Strength (MPa) | ISO 527-2 | 29 / 29 |
| Elongation at Break (%) | ISO 527-2 | 25 / 25 |



Complete TDS

Post-Processing

Chemical Smoothing



Read the whitepaper to learn in detail how to surface treat thermoplastic polymer 3D-printed parts and obtain parts with improved airtightness.

Whitepaper available.

Ultracur3D UV Adhesion Promoter



A solvent-borne UV-Primer to improve the adhesion for rigid 3D-Printing Materials. It is compatible with commercially available topcoats and clearcoats.



Ultrasint® PA11

Technology:

Color:

Powder Bed Fusion

White/Black

Machine Compatibility:

SLS machines

EOS - Farsoon - Prodways - 3D Systems - XYZprinting



High Toughness

Able to withstand high mechanical loads and not splinter



Bio-sourced

Bio-derived from sustainable castor oil



High Elongation at Break

Elongation at Break up to 45%

Ultrasint® PA11

Suited for:



Medical Applications



I Cons

Consumer Goods



Automotive

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|-----------|-------------|
| Charpy Impact Strength Unnotched (kJ/m²) | ISO 179-1 | 198 / 85 |
| E-Modulus (MPa) | ISO 527-2 | 1100 / 1250 |
| Tensile Strength (MPa) | ISO 527-2 | 45 / 46 |
| Elongation at Break (%) | ISO 527-2 | 45/31 |



Complete TDS

Tests & Certifications

| Skin Contact / | Fred Order |
|----------------------|---------------------|
| Biocompatibility | Food Contact |
| ISO 10993-10 | |
| ISO 10993-5 | Statement Available |
| USP Class IV | |

Post-Processing

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



The Forward AM Ultracur3D® Coat F+ is a flexible waterborn 2k-basecoat designed to offer exceptional flexibility for 3D Printing Materials and enables new possibilities for advanced applications.

Dyeing



Liquid dyeing ensures that color evenly reaches all surfaces of the parts including small cavities, lattices, and hollowed parts.



Ultrasint® PA11 Black

Technology:

Color:

Powder Bed Fusion

White/Black

Machine Compatibility:

SLS machines

EOS - Farsoon - Prodways - 3D Systems - XYZprinting



High Toughness

Able to withstand high mechanical loads and not splinter



Bio-sourced

Bio-derived from sustainable castor oil



High Elongation at Break

Elongation at Break up to 45%

Ultrasint® PA11 Black

Suited for:



Medical Applications



Industrial



Consumer Goods



Automotive

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z | |
|--|-----------|---------------|--|
| Charpy Impact Strength Unnotched (kJ/m²) | ISO 179-1 | no break / 75 | |
| E-Modulus (MPa) | ISO 527-2 | 1150 / 1200 | |
| Tensile Strength (MPa) | ISO 527-2 | 28 / 26 | |
| Elongation at Break (%) | ISO 527-2 | 42 / 34 | |



Complete TDS

Post-Processing

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



The Forward AM Ultracur3D® Coat F+ is a flexible waterborn 2k-basecoat designed to offer exceptional flexibility for 3D Printing Materials and enables new possibilities for advanced applications.



Ultrasint® PA11 CF

Carbon Fiber

Technology:

Color:

Powder Bed Fusion

Black

Machine Compatibility:

SLS machines

Farsoon - Prodways - 3D Systems



Carbon-Fiber Reinforced

Excellent for high strength and rigidity applications



High impact resistance

Charpy impact unnotched up to 63 kJ/m², good option to replace metal parts



High Strength to Weight Ratio

Key for lightweight structures

Ultrasint® PA11 CF

Suited for:







Manufacturing

Industria

Consumer Goods



Automotive

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|-----------|-------------|
| Charpy Impact Strength Unnotched (kJ/m²) | ISO 179-1 | 63 / 45 |
| E-Modulus (MPa) | ISO 527-2 | 4550 / 1700 |
| Tensile Strength (MPa) | ISO 527-2 | 71 / 37 |
| Elongation at Break (%) | ISO 527-2 | 11 / 5.2 |



Complete TDS

Tests & Certifications

| Bio-sourced | Thermal Performance |
|---|------------------------------|
| Bio-derived from sustainable castor oil | Good heat-ageing performance |

Post-Processing

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



The Forward AM Ultracur3D® Coat F+ is a flexible waterborn 2k-basecoat designed to offer exceptional flexibility for 3D Printing Materials and enables new possibilities for advanced applications.



Ultrasint® PA11 rCF

Carbon Fiber

Technology:

Color:

Powder Bed Fusion

Black

Machine Compatibility:

SLS machines

Farsoon - Prodways - 3D Systems



Carbon-Fiber Reinforced

Excellent for high strength and rigidity applications



High impact resistance

Charpy impact unnotched up to 63 kJ/m², good option to replace metal parts



High Strength to Weight Ratio

Key for lightweight structures



Recycled Carbon Fiber

Ultrasint® PA11 rCF

Suited for:







Manufacturing

Industrial

Consumer Goods



Automotive

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|-------------------------|-----------|-------------|
| E-Modulus (MPa) | ISO 527-2 | 4300 / 1750 |
| Tensile Strength (MPa) | ISO 527-2 | 69 / 42 |
| Elongation at Break (%) | ISO 527-2 | 10/9 |



Complete TDS

Post-Processing

Chemical Smoothing

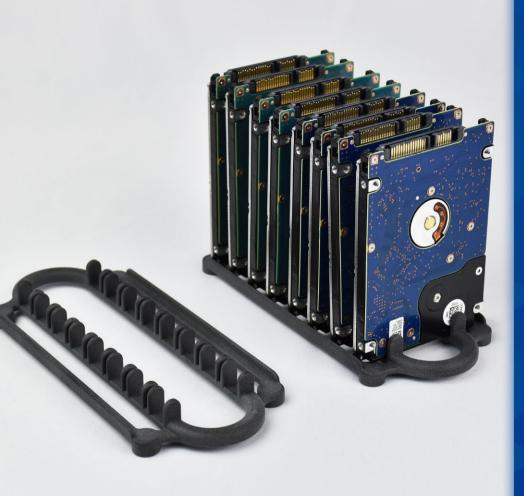


Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



The Forward AM Ultracur3D® Coat F+ is a flexible waterborn 2k-basecoat designed to offer exceptional flexibility for 3D Printing Materials and enables new possibilities for advanced applications.



Ultrasint® PA11 ESD

Electrostatic Safety Discharge

Technology:

Color:

Powder Bed Fusion

Gray

Machine Compatibility:

SLS machines

Farsoon - Prodways - 3D Systems



High Toughness

Able to withstand high mechanical loads and not splinter



Electrostatic Safety Discharge

Reduces the risk of electrostatically induced damage or failure



Bio-sourced

Bio-derived from sustainable castor oil

Ultrasint® PA11 ESD

Suited for:









Automotive

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|-----------|-------------|
| Charpy Impact Strength Unnotched (kJ/m²) | ISO 179-1 | 101 / 107 |
| E-Modulus (MPa) | ISO 527-2 | 2300 / 1550 |
| Tensile Strength (MPa) | ISO 527-2 | 55 / 47 |
| Elongation at Break (%) | ISO 527-2 | 22 / 31 |



Complete TDS

Tests & Certifications

| Electrical Volume & Sur- | | Thermal Performance | |
|--------------------------|------------------|---------------------|--|
| | face Resistivity | | |
| | IEC 62631-3-1 | Good heat-ageing | |
| | IEC 62631-3-2 | performance | |

Post-Processing

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



The Forward AM Ultracur3D® Coat F+ is a flexible waterborn 2k-basecoat designed to offer exceptional flexibility for 3D Printing Materials and enables new possibilities for advanced applications.



Ultrasint® TPU01

Technology:

Color:

Powder Bed Fusion

rav

Machine Compatibility:

MJF Machines

HP Jet Fusion 5200 Series



Highly flexible

Shore A 88 hardness



High Reusability

Up to 80% of powder reusability



Structures

Enabled by BASF Ultrasim®



Ultrasint® TPU01

Suited for:















Medical **Applications**

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|---------------|-----------|
| Charpy Impact Strength Notched -10°C (kJ/m²) | ISO 179-1 | 46 / 44 |
| E-Modulus (MPa) | ISO 527-2, 1A | 85 / 85 |
| Tensile Strength (MPa) | DIN 53504, S2 | 9/7 |
| Elongation at Break (%) | DIN 53504, S2 | 280 / 150 |



Complete TDS

Tests & Certifications

| | Skin Contact | UV Stability |
|-------|---------------|---------------------|
| ••••• | ISO 10993-10 | ISO 4892-2B Cycle 3 |
| | & ISO 10993-5 | ISO 4892-2A Cycle 1 |

Post-Processing and Related Services

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Whitepaper available.

Ultracur3D® Coat F+

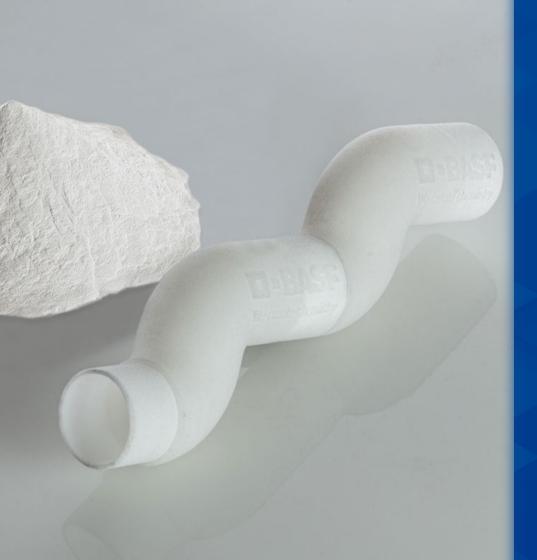


Flexible waterborn 2k-basecoat designed to offer exceptional flexibility for elastic 3D Printing Materials and enables new possibilities for advanced applications.

Ultrasim® 3D Lattice Design



Lattice engineering unlocks the potential of high-performance materials for any application. Customized lattices can be engineered to specific mechanical properties.



Ultrasint® TPU 88A

Technology:

Color:

Powder Bed Fusion

White

Machine Compatibility:

All SLS machines

Farsoon - EOS - 3D Systems - XYZprinting



High Reusability

Up to 80% of powder reusability



Excellent Surface Quality and High Level of Detail



Highly flexible

Shore A 88 hardness

Ultrasint® TPU 88A

Suited for:









Automotive



Medical Applications

Access all resources by scanning the OR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|------------------|-----------|
| Charpy Impact Strength Notched -10°C (kJ/m²) | DIN EN ISO 179-1 | 60 / 58 |
| E-Modulus (MPa) | ISO 527-2, 1A | 75 / 75 |
| Tensile Strength (MPa) | DIN 53504, S2 | 8/7 |
| Elongation at Break (%) | DIN 53504, S2 | 270 / 130 |



Complete TDS

Tests & Certifications

| Skin Contact | UV Stability | |
|---------------|---------------------|--|
| ISO 10993-10 | ISO 4892-2B Cycle 3 | |
| & ISO 10993-5 | ISO 4892-2A Cycle 1 | |

Post-Processing and Related Services

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



The Forward AM
Ultracur3D® Coat F+
is a flexible waterborn
2k-basecoat designed
to offer exceptional
flexibility for 3D Printing
Materials and enables new
possibilities for advanced
applications.

Dyeing



Liquid dyeing ensures that color evenly reaches all surfaces of the parts including small cavities, lattices, and hollowed parts.

Ultrasim® 3D Lattice Design



Lattice engineering unlocks the potential of highperformance materials for any application. Customized lattices can be engineered to specific mechanical properties.



Ultrasint® TPU 88A Black

Technology:

Color:

Powder Bed Fusion

Black

Machine Compatibility:

SLS machines including Desktop Machines EOS - Farsoon - XYZprinting - 3D Systems



Suitable for Desktop Machines



High Reusability

Up to 80% of powder reusability



High Elasticity and Rebound

Elongation at Break
- up to 360%

Ultrasint® TPU 88A Black

Suited for:







Footwear Industrial

Sports



Automotive



Medical **Applications**

Access all resources by scanning the QR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|--|------------------|---------------------|
| Charpy Impact Strength Notched -30°C (kJ/m²) | DIN EN ISO 179-1 | No break / No break |
| E-Modulus (MPa) | ISO 527-2, 1A | 85/85 |
| Tensile Strength (MPa) | DIN 53504, S2 | 8/5 |
| Elongation at Break (%) | DIN 53504, S2 | 360/100 |



Complete TDS

Tests & Certifications

| UV Stability | Skin Contact |
|---------------------|---------------|
| ICO 4000 04 Coole 1 | ISO 10993-10 |
| ISO 4892-2A Cycle 1 | & ISO 10993-5 |

Post-Processing

Chemical Smoothing



Read the whitepaper to learn in detail how to surface treat thermoplastic polymer 3D-printed parts and obtain parts with improved airtightness.

Whitepaper available.

Ultracur3D® Coat F+



Flexible waterborn 2k-basecoat designed to offer exceptional flexibility for elastic 3D Printing Materials and enables new possibilities for advanced applications.



Ultrasint® TPU 90A LT

Technology:

Color:

Powder Bed Fusion

White

Machine Compatibility:

All SLS machines

Farsoon - EOS - 3D Systems - XYZprinting



Lightweight



High Rebound



Highly flexible

Ultrasint® TPU 90A LT

Suited for:











Automotive



Medical Applications

Access all resources by scanning the OR code



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Technical Specifications

| Mechanical properties | Standard | X/Z |
|-------------------------|-------------------|------|
| Tensile Modulus (MPa) | ISO 527-2, 1A | 110 |
| Energy Return (%) | DIN 53512 | 66 |
| Density (g/kg) | DIN EN ISO 1183-1 | 1.05 |
| Elongation at Break (%) | DIN 53504, S2 | 280 |



Complete TDS

Tests & Certifications

Cytotoxicity

Passed

Post-Processing and Related Services

Chemical Smoothing



Both mechanical and chemical smoothing will improve material performance while enhancing the appeal, durability, surface roughness and overall quality.

Ultracur3D® Coat F+



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2k-basecoat designed
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flexibility for 3D Printing
Materials and enables new
possibilities for advanced
applications.

Dyeing



Liquid dyeing ensures that color evenly reaches all surfaces of the parts including small cavities, lattices, and hollowed parts.

Ultrasim® 3D Lattice Design



Lattice engineering unlocks the potential of highperformance materials for any application. Customized lattices can be engineered to specific mechanical properties.



Have a 3D printing project in mind?

At Forward AM, we drive the industrialization of Additive Manufacturing.

We accompany customers from first idea to final printed part - on global scale, at highest quality.

Get in touch with us:

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