

# Line Card

## Supporting our customers in their adoption of additive manufacturing

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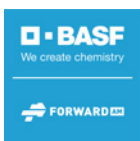
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### OUR SUPPLIERS



# FILAMENTS FOR ADDITIVE MANUFACTURING

## Our products in EMEA

| Plastic Type | Grade                        | Brand   | Thermal Properties         | Tensile Strength | Tensile Modulus | Additional Information  |
|--------------|------------------------------|---|----------------------------|------------------|-----------------|---|
| ABS          | Ultrafuse® ABS Fusion+       | BASF  | 96°C ISO75 <sup>1</sup>    | 28 MPa           | 1445 MPa        | Low Warping   |
| PA12         | Jabil PA 4035 CF             |  Jabil   | 154°C DMA <sup>4</sup>     | 66 MPa           | 6000 MPa        | ESD Safe  |
| PA6          | Jabil PA 4500                | Jabil   | 62°C DMA <sup>4</sup>      | 56 MPa           | 1930 MPa        | High Elongation at Break  |
|              | Jabil PA 4535 CF             |  Jabil   | 162°C DMA <sup>4</sup>     | 88 MPa           | 10600 MPa       | ESD Safe  |
|              | Ultrafuse® GF30-PA6          |  BASF  | 124°C ISO75 <sup>2</sup>   | 78 MPa           | 5036 MPa        | -----   |
| PA6/66       | Addigy® F1030                | Covestro  | 84°C ISO75 <sup>1</sup>    | 46 MPa           | 2330 MPa        | Food Contact -FDA Regulation 21 CFR   |
|              | Addigy® F1030 CF10           |  Covestro  | 184°C ISO75 <sup>1</sup>   | 110 MPa          | 7630 MPa        | -----   |
|              | Addigy® F1030 FR             |  Covestro  | -- --                      | 57 MPa           | 3500 MPa        | Flame Retardant: UL94 V-0 at 1.6mm; UL Blue Card  |
|              | Addigy® PA6/66-GF20 FR LS    |   Covestro  | 168°C ISO75 <sup>1</sup>   | 53 MPa           | 4876 MPa        | Flame retardant: UL94 V-0 at 3.2mm; Fire Testing to Railway Components: EN 45545-2 R22/R23 (HL3)          |
| PA/PK        | Jabil PA 0600                | Jabil   | 103°C DMA <sup>4</sup>     | 49 MPa           | 2660 MPa        | Low Coefficient of Friction   |
| PAHT         | Luvocom 3F PAHT® 9825        | Lehvoss   | 120°C 200h <sup>3</sup>    | 82 MPa           | 3100 MPa        | Very Low Warping  |
|              | Luvocom 3F PAHT® 9936        | Lehvoss   | 120°C 200h <sup>3</sup>    | 78 MPa           | 3400 MPa        | Very Low Warping<br>Optimized Surface Appearance  |
|              | Ultrafuse® PAHT CF15         |  BASF  | 145°C ISO75 <sup>1</sup>   | 103 MPa          | 8386 MPa        | ESD Safe  |
|              | Luvocom 3F PAHT® CF 9891     |  Lehvoss   | 160°C 200h <sup>3</sup>    | 130 MPa          | 11500 MPa       | Electrical Properties   |
|              | Luvocom 3F PAHT® KK 50056 FR |  Lehvoss   | 120°C 200h <sup>3</sup>    | 55 MPa           | 6000 MPa        | Flame Retardant: UL94 V-0 at 1.5mm<br>Fire Testing to Railway Components: EN45545-2 R22/R23 HL3           |
| PC           | Ultrafuse® GF30 PC           |  BASF   | 137°C ISO75 <sup>2</sup>   | 65 MPa           | 5400 MPa        | Flame Retardant: UL94 V-0 at 3.0mm<br>Fire Testing to Railway Components: EN45545-2 R22/R23/R24/R26 HL1-3 |
| PC-ABS       | Ultrafuse® PC ABS FR         |  BASF  | 86°C ISO75 <sup>1</sup>    | 50 MPa           | 2545 MPa        | Flame Retardant: UL94 V-0 at 1.5mm<br>Fire Testing to Railway Components: EN45545-2 R26 HL1-3             |
| PET          | Ultrafuse® PET               | BASF  | 63°C ISO75 <sup>1</sup>    | 33 MPa           | 1933 MPa        | Food Contact -FDA Regulation 21 CFR   |
|              | Ultrafuse® rPET              |   BASF  | 71°C ISO75 <sup>1</sup>    | 39 MPa           | 1640 MPa        | Made of Recycled Material   |
|              | Ultrafuse® PET CF 15         |  BASF  | 108°C ISO75 <sup>1</sup>   | 63 MPa           | 6178 MPa        | -----   |
|              | Luvocom 3F PET CF 9780       |  Lehvoss   | 125°C 200h <sup>3</sup>    | 80 MPa           | 9000 MPa        | Very Low Warping  |
| PETG         | Jabil PETg 0800 ESD          | Jabil   | 67°C DMA <sup>4</sup>      | 39 MPa           | 1895 MPa        | ESD Safe  |
| PLA          | Ultrafuse® PLA Pro           |  BASF  | -- --                      | 48 MPa           | 3166 MPa        | Biocompatibility Certificate  |
| PP           | FL105PP                      | Braskem   | 93°C ASTM648 <sup>1</sup>  | 11 MPa           | 1020 MPa        | Low Warping   |
|              | FL500PP-GF                   |  Braskem   | 154°C ASTM648 <sup>1</sup> | 46 MPa           | 5200 MPa        | Improved Impact Strength  |
|              | Ultrafuse® GF30 PP           |  BASF  | 127°C ISO75 <sup>1</sup>   | 42 MPa           | 2628 MPa        | Improved UV Resistance  |
|              | FL900PP-CF                   |    Braskem | 158°C ASTM648 <sup>1</sup> | 41 MPa           | 6380 MPa        | 100% Recycled Carbon Fiber  |
| PP/PE        | FL605R-CF                    |    Braskem | 122°C ASTM648 <sup>1</sup> | 25 MPa           | 3900 MPa        | 90% Recycled Content  |
| PE           | FL300PE                      | Braskem   | 66°C ASTM648 <sup>1</sup>  | 19 MPa           | 752 MPa         | -----   |
| PEEK         | KetaSpire MS NT1             |  Solvay  | 240°C 200h <sup>3</sup>    | 85 MPa           | 3120 MPa        | Inherent Flame Retardant  |
|              | KetaSpire CF10 LS1           |   Solvay  | 240°C 200h <sup>3</sup>    | 140 MPa          | 11000 MPa       | Inherent Flame Retardant  |

(1) 0.45 MPa HDT B

(2) 1.82 MPa HDT A Values

(3) Service Temperature During Lifetime (max. 200h)

(4) Dynamic Mechanical Analysis

 Carbon Fiber

 Glass Fiber

 Halogen Free






 Recycled Material

 Eco Friendly

 High Temperature Machinery Required

More products available!


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| Plastic Type | Grade                    | Brand   | Thermal Properties         | Tensile Strength | Tensile Modulus | Additional Information   |
|--------------|--------------------------|---|----------------------------|------------------|-----------------|--|
| PEI          | AMS31F-100               | Sabic   |                            |                  |                 | Support Filament   |
|              | ULTEM™ AM9085F           |  Sabic   | 175°C ASTM648 <sup>2</sup> | 80 MPa           | 2555 MPa        | Fire Testing to Railway Components: EN 45545-2 R6 (HL1, HL2, HL3)                                      |
|              | ULTEM™ AM1010F           |  Sabic   | 211°C ASTM648 <sup>2</sup> | 80 MPa           | 2865 MPa        | Flame Retardant: UL94 V-0 at 1.5mm   |
|              | LUVOCOM® 3F PEI 50236 GY | Lehvoss   | 200°C ISO75 <sup>2</sup>   | 105 MPa          | 3500 MPa        | Flame retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R1 (HL3) from 2mm   |
| PPS          | Luvocom 3F PPS CF 9938   |  Lehvoss | 240°C 200h <sup>3</sup>    | 120 MPa          | --              | Flame retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R22, R23 (HL3)      |
| PPSU         | Radel MS NT1             |  Solvay  | 207°C ISO75 <sup>1</sup>   | 62 MPa           | 2000 MPa        | Biocompatibility Certificate<br>Inherent Flame Retardant   |
|              | Ultrafuse® PPSU          |  BASF    | 215°C ISO75 <sup>1</sup>   | 75 MPa           | 2221 MPa        | Flame Retardant: UL94 V-0 at 1.5mm<br>Fire Testing to Railway Components: EN45545-2 R7/R23/R24/R26 HL3 |
| PVDF         | Solef PVDF MSC NT 1      | Solvay  | 120°C 200h <sup>3</sup>    | 30 MPa           | 800 MPa         | Inherent Flame Retardant<br>Outstanding UV Resistance  |

(1) 0.45 MPa HDT B

(2) 1.82 MPa HDT A Values

(3) Service Temperature During Lifetime (max. 200h)

| ELASTOMERS |                    | Brand   | Shore   | Tensile Strength | Elongation | Compression Set            | Additional Information   |
|------------|--------------------|---|---------|------------------|------------|----------------------------|--|
| TPC        | Addigy® F2045      |  Covestro | 34D/85A | 8 MPa            | 350%       | --                         | Biocompatibility Certificate<br>High UV and Chemical Resistance            |
|            | Addigy® F2060 HT   | Covestro  | 61D/98A | 35 MPa           | 510%       | --                         | Prolonged High Temperature Performance: 175°C (1,000 hrs), 190°C (500 hrs) |
| TPE        | Ultrafuse® TPS 90A | BASF  | 29D/89A | 7 MPa            | 280%       | 75% <sup>4</sup> ISO 815-1 | Biocompatibility Certificate   |
| TPU        | Ultrafuse® TPU 85A | BASF  | 29D/85A | 34 MPa           | 600%       | 26% <sup>4</sup> ISO 815-1 | Biocompatibility Certificate   |
|            | Ultrafuse® TPU 64D | BASF  | 58D     | 37 MPa           | 399%       | 25% <sup>4</sup> ISO 815-1 | Biocompatibility Certificate   |
|            | Ultrafuse® TPU 95A | BASF  | 45D/92A | 44 MPa           | 661%       | 38% <sup>4</sup> ISO 815-1 | Biocompatibility Certificate   |

(4) Compression Set at 23°C, 72 h

| METALS                   | Brand | Sintered Part Density  | Tensile Strength | Elongation | Vickers Hardness |
|--------------------------|-------|------------------------|------------------|------------|------------------|
| Ultrafuse® 17-4 PH       | BASF  | 7850 kg/m <sup>3</sup> | 1319 MPa         | 7%         | 426 HV10         |
| Ultrafuse® 316L          | BASF  | 7600 kg/m <sup>3</sup> | 561 MPa          | 53%        | 128 HV10         |
| Ultrafuse® Support Layer | BASF  |                        |                  |            |                  |

 Carbon Fiber  Glass Fiber  Halogen Free  Recycled Material  Eco Friendly  High Temperature Machinery Required

## OUR SUPPLIERS



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The logo consists of the characters '3D' in a bold, green, sans-serif font. A horizontal line is positioned below the '3' and the 'D', extending slightly beyond the width of the '3'.The logo features the word 'nexeo' in a green, lowercase, sans-serif font with a registered trademark symbol (®) to its upper right. Below 'nexeo' is the word 'plastics' in a smaller, black, lowercase, sans-serif font. A vertical line is positioned to the left of the text.