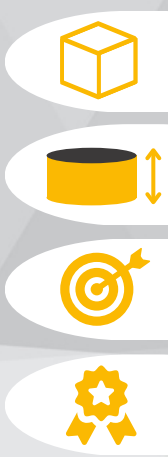




GALATÉE 3D

PROTOTYPAGE RAPIDE



|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Volume d'impression   | 330 x 270 x 200 mm                                |
| Épaisseur des couches | 50 à 200 microns                                  |
| Précision             | +/- 0.12 mm                                       |
| Certification         | Matériau ignifugé<br>norme UL 94 V-0<br>(Onyx FR) |

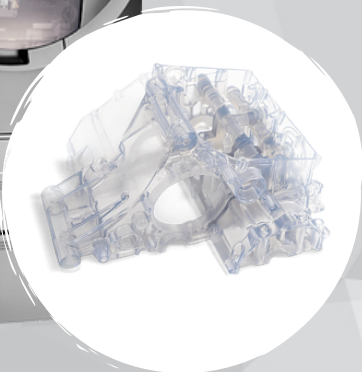
| COMPOSITE BASE                | Test (ASTM)       | PLA                | Onyx                | Onyx FR        | Onyx ESD                         |
|-------------------------------|-------------------|--------------------|---------------------|----------------|----------------------------------|
| Description                   | -                 | acide polylactique | Carbon filled nylon | Fire-resistant | Antistatic                       |
| Tensile Modulus (GPa)         | D638              | 2.3                | 2.4                 | 3.0            | 4.2                              |
| Tensile Stress at Yield (MPa) | D638              | 31                 | 40                  | 41             | 52                               |
| Tensile Stress at Break (MPa) | D638              | 18                 | 37                  | 40             | 50                               |
| Tensile Strain at Break (%)   | D638              | 27                 | 25                  | 18             | 25                               |
| Flexural Strength (MPa)       | D790              | 43                 | 71                  | 71             | 83                               |
| Flexural Modulus (GPa)        | D790              | 2.3                | 3.0                 | 3.6            | 3.7                              |
| Heat Deflection Temp (°C)     | D648 B            | 52                 | 145                 | 145            | 138                              |
| Flame Resistance              | UL94              | -                  | -                   | V-0*           | -                                |
| Izod Impact - notched (J/m)   | D256-10 A         | 62                 | 330                 | -              | 44                               |
| Surface Resistance (Ω)        | ANSI/ESD STM11.11 | -                  | -                   | -              | 10 <sup>5</sup> -10 <sup>7</sup> |
| Density (g/cm <sup>2</sup> )  | -                 | 1.3                | 1.2                 | 1.2            | 1.2                              |
| Color                         | -                 | Multi-colors       | Black               | Black          | Black                            |

\*Le matériau Onyx FR est certifié UL 94 V-0 Blue Card avec une épaisseur de 3 mm minimum



# FICHE TECHNIQUE | Polyjet - Résine HD

## GALATÉE 3D PROTOTYPAGE RAPIDE



**Volume d'impression**

250 x 250 x 220 mm



**Épaisseur des couches**

30 et 16 microns  
(Veroclear)



**Précision**

+/- 0.1 mm

| COMPOSITE BASE              | Test (ASTM)   | Verowhite             | Veroclear             |
|-----------------------------|---------------|-----------------------|-----------------------|
| Description                 | -             | High Definition Resin | High Definition Resin |
| Tensile Strength (Mpa)      | D-638-03      | 50-65                 | 50-65                 |
| Elongation at break (%)     | D-638-05      | 10-25                 | 10-25                 |
| Modulus of elasticity (Mpa) | D-638-04      | 2000-3000             | 2000-3000             |
| Flexural Strength (Mpa)     | D-790-03      | 75-110                | 75-110                |
| Flexural Modulus (Mpa)      | D-790-04      | 2200-3200             | 2200-3200             |
| HDT, °C @ 1.82 MPa (°C)     | D-648-07      | 45-50                 | 45-50                 |
| Izod Notched Impact (J/m)   | D-256-06      | 20-30                 | 20-30                 |
| Water absorption (%)        | D-570-98 24hr | 1.1-1.5               | 1.1-1.5               |
| Tg (°C)                     | DMA, E»       | 52-54                 | 52-54                 |
| Shore Hardness (D)          | Scale D       | 83-86                 | 83-86                 |
| Rockwell Hardness (M)       | Scale M       | 73-76                 | 73-76                 |
| Polymerized density (g/cm3) | ASTM D792     | 1.18-1.19             | 1.18-1.19             |
| Color                       | -             | White                 | Translucent           |





GALATÉE 3D  
PROTOTYPAGE RAPIDE



|  |                       |                         |
|--|-----------------------|-------------------------|
|  | Volume d'impression   | 630 x 330 x 550 mm      |
|  | Épaisseur des couches | 100 microns             |
|  | Précision             | +/- 0.3 mm              |
|  | Certification         | Biocompatibilité (PA11) |

|                                | Test (ASTM)         | PA12               | PA11               | PA-GF              | TPU 90A                |
|--------------------------------|---------------------|--------------------|--------------------|--------------------|------------------------|
| Description                    | -                   | Nylon Polyamide 12 | Nylon Polyamide 11 | Glass filled nylon | Polyuréthane shore 90A |
| Tensile Modulus (MPa)          | DIN EN ISO 527      | 1650 +/- 150       | 1750 +/- 150       | 3200 +/- 200       | 75                     |
| Tensile Strength (MPa)         | DIN EN ISO 527      | 48 +/- 3           | 52 +/- 3           | 51 +/- 3           | 9                      |
| Elongation at Break (%)        | DIN EN ISO 527      | 20 +/- 5           | 28 +/- 1           | 6 +/- 3            | 220                    |
| Flexural Modulus (N/mm²)       | DIN EN ISO 178      | 1500 +/- 130       | 1750 +/- 150       | 2900 +/- 150       | 75                     |
| Charpy - Impact strength (MPa) | DIN EN ISO 179      | 53 +/- 3.8         | 85 +/- 2           | 35 +/- 6           | -                      |
| Izod - Impact Strength (kJ/m²) | DIN EN ISO 180      | 32.8 +/- 3.4       | No Break           | 21.3 +/- 1.7       | No Break               |
| Ball Indentation Hardness      | DIN EN ISO 2039     | 77.6 +/- 2         | NA                 | 98                 | 63                     |
| Shore D/ A- hardness           | DIN 53505           | D75 +/- 2          | D74 +/- 2          | D80 +/- 2          | 88                     |
| Heat Deflection Temp (°C)      | ASTM D648 (1.82MPa) | 86                 | 76                 | 110                | -                      |
| Density (g/cm³)                | -                   | 0.95 +/- 0.03      | 1.02 +/- 0.05      | 1.22 +/- 0.03      | 1.1                    |
| Color                          | -                   | White              | White              | White              | Dark grey              |

Les valeurs réelles peuvent varier selon les conditions de fabrication

