

PolyJet Materials Data Sheet

| VeroWhite, VeroBlack, VeroGray, VeroColor* | | | |
|--|----------------|-------------------|-----------|
| Properties | ASTM | Unit | Metric |
| Tensile strength | D-638-03 | MPa | 50-65 |
| Elongation at break | D-638-05 | % | 10-25 |
| Modulus of elasticity | D-638-04 | MPa | 2000-3000 |
| Flexural strength | D-790-03 | MPa | 75-110 |
| Flexural modulus | D-790-04 | MPa | 2200-3200 |
| HDT °C@0.45MPa | D-648-06 | °C | 45-50 |
| HDT °C@1.82MPa | D-648-07 | °C | 45-50 |
| Izod notched impact | D-256-06 | J/m | 20-30 |
| Water absorption | D-570-98, 24hr | % | 1.1-1.5 |
| Tg | DMA, E>> | °C | 52-54 |
| Shore hardness | Scale D | Scale D | 83-86 |
| Rockwell hardness | Scale M | Scale M | 73-76 |
| Polymerized density | D-792 | g/cm ³ | 1.17-1.18 |
| Ash content VeroGray + White | USP-281 | % | 0.23-0.26 |
| Ash content VeroBlack | USP-281 | % | 0.01-0.02 |

*VeroColor is not standard and will have a set-up cost on 3000 SEK

| VeroBlue | | | |
|-----------------------|----------------|-------------------|-----------|
| Properties | ASTM | Unit | Metric |
| Tensile strength | D-638-03 | MPa | 50-60 |
| Elongation at break | D-638-05 | % | 15-25 |
| Modulus of elasticity | D-638-04 | MPa | 2000-3000 |
| Flexural strength | D-790-03 | MPa | 60-70 |
| Flexural modulus | D-790-04 | MPa | 1900-2500 |
| HDT °C@0.45MPa | D-648-06 | °C | 45-50 |
| HDT °C@1.82MPa | D-648-07 | °C | 45-50 |
| Izod notched impact | D-256-06 | J/m | 20-30 |
| Water absorption | D-570-98, 24hr | % | 1.5-2.2 |
| Tg | DMA, E>> | °C | 48-50 |
| Shore hardness | Scale D | Scale D | 83-86 |
| Rockwell hardness | Scale M | Scale M | 73-76 |
| Polymerized density | D-792 | g/cm ³ | 1.18-1.19 |
| Ash content | USP-281 | % | 0.21-0.22 |

| Transparent | | | |
|-----------------------|----------------|-------------------|-----------|
| Properties | ASTM | Unit | Metric |
| Tensile strength | D-638-03 | MPa | 50-65 |
| Elongation at break | D-638-05 | % | 15-25 |
| Modulus of elasticity | D-638-04 | MPa | 2000-3000 |
| Flexural strength | D-790-03 | MPa | 80-110 |
| Flexural modulus | D-790-04 | MPa | 2700-3300 |
| HDT °C@0.45MPa | D-648-06 | °C | 45-50 |
| HDT °C@1.82MPa | D-648-07 | °C | 45-50 |
| Izod notched impact | D-256-06 | J/m | 20-30 |
| Water absorption | D-570-98, 24hr | % | 1.5-2.2 |
| Tg | DMA, E>> | °C | 48-50 |
| Shore hardness | Scale D | Scale D | 83-86 |
| Rockwell hardness | Scale M | Scale M | 73-76 |
| Polymerized density | D-792 | g/cm ³ | 1.18-1.19 |
| Ash content | USP-281 | % | 0.01-0.02 |

| VeroClear | | | |
|-----------------------|----------------|-------------------|-----------|
| Properties | ASTM | Unit | Metric |
| Tensile strength | D-638-03 | MPa | 50-65 |
| Elongation at break | D-638-05 | % | 10-25 |
| Modulus of elasticity | D-638-04 | MPa | 2000-3000 |
| Flexural strength | D-790-03 | MPa | 75-110 |
| Flexural modulus | D-790-04 | MPa | 2200-3200 |
| HDT °C@0.45MPa | D-648-06 | °C | 45-50 |
| HDT °C@1.82MPa | D-648-07 | °C | 45-50 |
| Izod notched impact | D-256-06 | J/m | 20-30 |
| Water absorption | D-570-98, 24hr | % | 1.1-1.5 |
| Tg | DMA, E>> | °C | 52-54 |
| Shore hardness | Scale D | Scale D | 83-86 |
| Rockwell hardness | Scale M | Scale M | 73-76 |
| Polymerized density | D-792 | g/cm ³ | 1.18-1.19 |
| Ash content | USP-281 | % | 0.02-0.06 |

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| PP-like (RGD8530) | | | |
|-----------------------|----------|---------|-----------|
| Properties | ASTM | Unit | Metric |
| Tensile strength | D-638-03 | MPa | 29-38 |
| Elongation at break | D-638-05 | % | 25-35 |
| Modulus of elasticity | D-638-04 | MPa | 1100-1700 |
| Flexural strength | D-790-03 | MPa | 35-45 |
| Flexural modulus | D-790-04 | MPa | 1200-1500 |
| HDT °C@0.45MPa | D-648-06 | °C | 38-41 |
| Izod notched impact | D-256-06 | J/m | 21-40 |
| Shore hardness | D2240-05 | Scale D | 76.1-81.7 |



| Rubber-like, Shore A, FLX | | | | | | | | | |
|---------------------------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|
| Properties | ASTM | Unit | 27 | 40 | 50 | 60 | 70 | 85 | 95 |
| Tensile strength | D-412 | MPa | 0.8-1.5 | 1.3-1.8 | 1.9-3.0 | 2.5-4.0 | 3.5-5.0 | 5.0-7.0 | 8.5-10.0 |
| Elongation at break | D-412 | % | 170-220 | 110-130 | 95-110 | 75-85 | 65-80 | 55-65 | 35-45 |
| Tensile tear resistance | D-624 | Kg/cm | 2-4 | 5.5-7.5 | 7.5-9.5 | 11-13 | 15.5-17.5 | 23-25 | 41-44 |
| Shore hardness | D-2240 | Scale A | 27 | 40 | 50 | 60 | 70 | 85 | 95 |

What is PolyJet Technology?

PolyJet is a powerful 3D printing technology that produces smooth, accurate parts, prototypes and tooling. With microscopic layer resolution and accuracy down to 0.014mm, it can produce thin walls and complex geometries.

Benefits of PolyJet:

- Create smooth, detailed prototypes that convey final product aesthetics.
- Produce accurate molds, jigs, fixtures and other manufacturing tools.
- Achieve complex shapes, intricate details and delicate features.
- Incorporate the widest variety of colors and materials into a single model for unbeatable efficiency.