

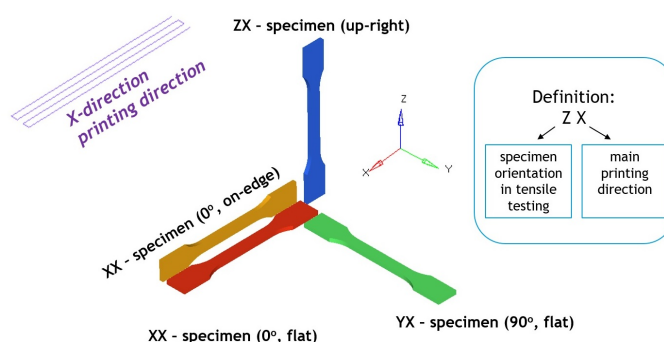
Arnitel® ID2045

TPC

>50% Renewable Content, 3D printing grade

Print Date: 2022-03-18

The material passed the ISO irritation, ISO cytotox and the USP VI tests.



Sustainability

Bio-based – 14C measurable

| Properties | Typical Data | Unit | Test Method |
|---|--------------|------------------------|----------------------|
| Mechanical Properties (3D printed) | | | |
| Value | | | |
| Tensile modulus (X-X direction, flat) | 29 | MPa | Sim. to ISO 527-1/-2 |
| Stress at yield (X-X direction, flat) | 8 | MPa | Sim. to ISO 527-1/-2 |
| Strain at break (X-X direction, flat) | 350 | % | Sim. to ISO 527-1/-2 |
| Thermal properties | | | |
| Value | | | |
| Melting temperature (10°C/min) | 158 | °C | ISO 11357-1/-3 |
| Glass transition temperature (10°C/min) | -35 | °C | ISO 11357-1/-2 |
| Rheological properties | | | |
| Value | | | |
| Melt volume-flow rate | 45 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |

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Property Data

Arnitel[®] ID2045

Print Date: 2022-03-18

| Properties | Typical Data | Unit | Test Method |
|-------------------------------|--------------|-------------------|---------------------------|
| Other properties | Value | | |
| Humidity absorption | 0.04 | % | Sim. to ISO 62 |
| Density | 1100 | kg/m ³ | ISO 1183 |
| Biobased content (in polymer) | 52 | % (Bio C/Total C) | ASTM D6866-12 Method B |

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