

HIPS

Support Material



MATERIAL PROPERTIES		Standard
Density	1.05 g/cm ³	ISO 1183
Melt Flow Rate, (200°C/5.0kg)	12 g/10min	ISO 1133

Mechanical Properties		Standard
Tensile Stress at Yield	16 MPa	ISO 527-2/5
Tensile Stress at Break	16 MPa	ISO 527-2/5
Tensile Strain at Yield	1.5%	ISO 527-2/5
Tensile Strain at Break	50,00%	ISO 527-2/5
Flexural Modulus	2000 MPa	ISO 178
Flexural Strength	50 MPa	ISO 178
Charpy Notched Impact Strength	7kJ/m ²	ISO 179/2
Notched Izod Impact	90J/m	D 256
Rockwell Hardness (R-Scale)	55	ISO 2039-2

Thermal Properties		Standard
Vicat Softening Temperature	87°C	ISO 306/B50
Heat Deflection Temperature	88°C	ISO 75-2/B

Flammability		Standard
Flame Rating (0.0630 in (1.60mm))	HB	UL 94

DESCRIPTION

HIPS is a support material designed for additive manufacturing for FDM/FFF technology. It is usually used as support for components manufactured with ABS, where HIPS supports are dissolved in the citric acid solution (D-Limonene) upon completion of the manufacturing process. Further, you can use HIPS as a base material for manufacturing of components which require a reduced processing shrinkage as compared to ABS.

FEAUTURES

- lower shrinkage rate than classic ABS
- possibility of mechanical treatment (drilling, turning, milling or grinding)
- high impact resistance
- energy absorption and dissipation capabilities
- light
- fully soluble in D-Limonene
- matt surface

Detailed data are available on our website
www.3dgence.com

AMERICAS

3DGence America Inc.
Dallas, Texas,
USA

+1.855.466.3813
inquiries@3dgence.com

EUROPE

3DGence GmbH,
Gradignanstraße 4
64319 Pfungstadt, Germany

+49 6157 9118972
cs@3dgence.com

3DGence sp. z o.o.
Graniczna 66
44-178 Przyszowice, Poland

+48 32 438 98 63
cs@3dgence.com