

SLS MATERIAL SPECIFICATIONS

Nytek 1100

Highlights

- High-elongation polyamide-based material

Applications

- Production SLS parts
- Aerospace production parts. Best suited for ducting and other low tolerance applications requiring high elongation properties

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	English	Metric
Color/Appearance	Visual	White	White
Density	ASTM D792	0.0376 lb/in ³	1.04 gm/cc
Elongation at Break	ASTM D638	12 - 45 %	12 - 45 %
Flexural Modulus	ASTM D790	126,000 psi	869 MPa
Heat Deflection Temperature @ 264 psi	ASTM D648	111°F - 131°F	44°C - 55°C
Heat Deflection Temperature @ 66 psi	ASTM D648	302°F - 325°F	150°C - 163°C
Izod Impact Strength, (method A, notched)	ASTM D256	1.30 ft-lb/in	70 J/m
Izod Impact Strength (un-notched)	ASTM D256	26 ft-lb/in	1,370 J/m
Tensile Modulus	ASTM D638	202,000 - 275,000 psi	1,393 - 1,900 MPa
Tensile Strength	ASTM D638	5,950 - 7,600 psi	41 - 52 MPa
Surface Finish	Ra	350 - 500 RMS	400 - 280 μm
Volume Resistivity (22°C, 50%RH, 500V)	ASTM D257-93	-	1.00E+15 ohm-cm

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change with out notice.