

SLS MATERIAL SPECIFICATIONS

SLS WHITE

HIGHLIGHTS

- Durable nylon material, built in 0.004" - 0.006" layer thickness
- Excellent surface resolution/feature details
- Good chemical resistance
- Low moisture absorption
- Produces production parts without tooling

APPLICATIONS

- Housings and enclosures
- Impellers and connectors
- Snap-fit designs
- Direct Digital Manufacturing
- Complex production or prototype plastic parts
- Complex ductwork

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	English	Metric
Color/Appearance	Visual	White	White
Density	DIN 53466	0.034 lb/in ³	0.95 g/cm ³
Elongation at Break	ASTM D638	15%	15%
Flexural Modulus	ASTM D790	188,549 psi	1,300 MPa
Heat Deflection Temperature @ 264 psi	ASTM D648	187°F	86°C
Heat Deflection Temperature @ 66 psi	ASTM D648	350°F	177°C
Izod Impact Strength (method A, notched)	ASTM D256	4.12 ft-lb/in	220 J/m
Izod Impact Strength (un-notched)	ASTM D256	8.24 ft-lb/in	440 J/m
Tensile Modulus	ASTM D638	246,500 psi	1,700 MPa
Tensile Strength	ASTM D638	6,815 psi	46 MPa
Surface Finish	Up-facing surface finish	350 microinches	9 µm RA
Volume Resistivity (22°C, 50%RH, 500V)	ASTM D257-93	3.1 x 10 ¹⁴ ohm x cm	3.1 x 10 ¹⁴ ohm x cm
Specific Gravity	ASTM D792	1.04	1.04
Dielectric Strength	IEC 60112	28.0 kV/mm	28.0 kV/mm

SLS Material Datasheet 2015-09

