



GF Nylon-12

Process: Laser Sintered (LS)

Laser Sintered (LS) parts are ideal when you need tough parts for harsh functional testing. SICAM produces our laser sintered parts from pure nylon powder for high strength, pressure proof, chemical and heat resistant applications. Adding a percentage of glass fill can increase rigidity and resilience to parts in harsh heat environments.

MECHANICAL PROPERTIES	TEST METHOD	METRIC
Tensile Modulus	ASTM D638	3,300 MPa
Tensile Strength	ASTM D638	45 MPa
Elongation at Break	ASTM D638	0.06
Flexural Modulus	ASTM D790	3,150 MPa
Izod-Impact Strength	ASTM 2256	20 KJ /m ²
Izod-Notched Impact Strength	ASTM 2256	4.1 KJ /m ²
THERMAL & MATERIAL PROPERTIES	TEST METHOD	METRIC
Melting Point	DSC	184 deg. C
DTUL, 0.45 Mpa	ASTM D648	175 deg. C
DTUL, 1.82 Mpa	ASTM D648	110 deg. C
Density of laser sintered part, (20 deg. C)	ASTM D792	1.25 g/cc
Moisture Absorption, (23 deg. C)	ASTM D570	0.35%

Note: The information on the material properties above was obtained from the material provider. Actual values may vary. SICAM Corporation expressly disclaims any product warranties and cannot guarantee the accuracy of the information presented. (January 2012)