



## Alumide

A robust SLS material suitable for components and series-production pieces with a metallic appearance

### PRINTING PROCESS

Selective laser sintering (SLS)

### DESCRIPTION

Alumide is a metallic grey, aluminium-filled nylon 12 powder with excellent dimensional accuracy. It is suitable for the production of highly robust, rigid, high-precision pieces. The material is suitable for a range of applications.

### APPLICATION

The components are particularly suitable for applications in automotive manufacturing (e.g. wind tunnel tests), as well as for the construction of gauges and equipment.

## TECHNICAL DATA

Description	Alumide
Colour	metallic gray
Hardness [Shore D]	76
Flexural modulus [MPa]*	3600
Bending strength [MPa]*	72
Tensile modulus of elasticity [MPa]*	3800
Tensile strength [MPa]*	48
Elongation at break [%]*	4
Notched bar impact strength [kJ/m <sup>2</sup> ]*	4,6
Density [g/cm <sup>3</sup> ]	1,36
HDT @ 0.45 MPa [°C]*	175

\*X direction

Under no circumstances can the published information about the material data be considered as express warranty or otherwise. The density and mechanical properties may vary depending on the light exposure parameters and the x, y, z positioning of the test pieces. The application of these information and references as well as the decision on the suitability of any product for special applications is in all cases subject to the sole responsibility of the user.

cirp GmbH  
Römerstraße 8  
D-71296 Heimsheim

Phone +49 7033.30987-0  
Fax +49 7033.30987-50  
info@cirp.de | www.cirp.de