

Alumide

High temperature resistant

Metallic appearance

A mix of polyamide powder and aluminium particles producing a strong, stiff thermoplastic with a metallic finish.



Benefits

- High rigidity
- High temperature-resistance
- Multiple finishing options, including grinded, polished, or coated

Applications

- Suitable for wind tunnel tests
- Tool inserts
- Jig manufacture
- Illustrative models



Physical Properties

Colour	Metallic
Type	Aluminium filled SLS

Mechanical Properties

		TEST/ISO
Hardness Shore A/D	76D	DIN 53505
Flexural Modulus (MPa)	3,600	DIN EN ISO178
Tensile Strength (MPa)	48	Din EN ISO527
Tensile Modulus (MPa)	3,800	
Elongation Break (%)	4	
Impact Strength (J/m)	29	DIN EN ISO180
Density (g/cm)	1.36	N/A

Thermal & Specific Properties

Melting Point (°C)	172 – 180	DIN 53736
Heat deflection temperature (°C)	177	ASTM D648
Heat Conductivity [W(mk) ⁻¹]	0.5 – 0.8	Hot wire method

Electrical Properties

Surface Resistance [10V]	3 x 10 ¹² Ω	IEC93
Volume Resistance [10V]	6 x 10 ¹² Ω	
Dielectric Constant (1kHz)	13 ± 438 (100Hz)	DIN 53483
Dielectric loss factor (1kHz)	0.018 ± 0.002	

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