

KS208C

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

KS208C photopolymer resin is a specialized transparent material for stereolithography (SLA), designed for producing high-precision burn-out models with exceptional detail and stable properties. The material is widely used in various industries, including the production of master models for investment casting, creating conceptual models and functional prototypes, as well as manufacturing parts for the automotive industry, medical equipment, and consumer electronics. KS208C is characterized by high geometric accuracy, minimal surface roughness, stable properties under thermal exposure, and good light transmission, enabling visual inspection of internal structures.

STANDARD CHARACTERISTICS

- Medium viscosity liquid resin, easy layer application, easy part cleaning
- Excellent cohesive strength, minimal part finishing required
- Low ash content during burnout

Physical Properties – Liquid State

Color	Clear
Density	1,05 g/cm ³ at 25°C
Viscosity	402 cps at 25°C, 401 cps at 30°C
Dp	0,18 mm
Ash Content	0,05 %
Ec	9,7 mJ/cm ²
Layer Thickness	0,1 mm
Shrinkage for a print volume of 800x800x500 mm	No more than 0.15 %
Glass Transition Temperature	60 °C



Mechanical Properties of the Material After 90 Minutes of UV Curing

Measurement	Test Method	Value
Shore Hardness, D	ASTM D 2240	83
Flexural Modulus, MPa	ASTM D 790	2,670-2,780
Flexural Strength, MPa	ASTM D 790	75- 82
Tensile Modulus, MPa	ASTM D 638	2,570-2,660
Tensile Strength, MPa	ASTM D 638	45-60
Elongation at Break	ASTM D 638	12-21%
Impact Strength, Izod Notched, J/M	ASTM D 256	32 - 47
Heat Deflection Temperature, °C	ASTM D 648	51
Hermeticity of the Finished Photopolymer Product, Pressure Drop, Bar/min	ASTM D3078	No more than 0.001
Adhesion of the Shell Material to the Photopolymer Product, MPa		30
Resistance of the Photopolymer Product to Ammonia Vapors		Inert to ammonia vapors
Expansion of the Photopolymer Product When Heated to Burnout Temperature (900°C), %	ASTM D 648	0,07
Solubility of the Photopolymer Product in Organic Alcohols	ISO 7579:2009	Insoluble
Density of the Finished Photopolymer Product	ASTM D792	1.1 at 25°C

Director (signature and name)

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