

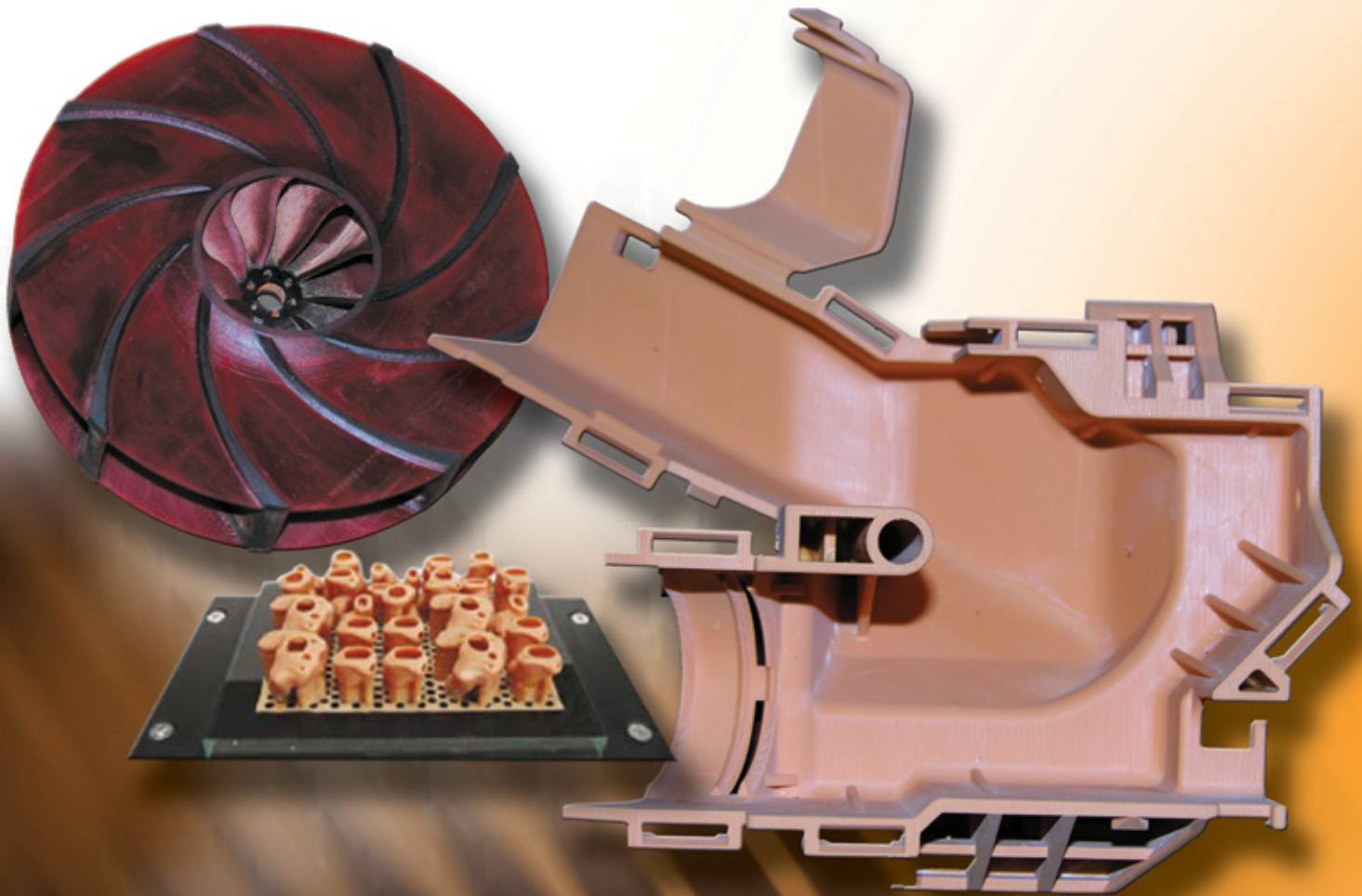
Synergeering Group has expanded its suite of rapid prototyping capabilities!



www.synergeering.com
project@synergeering.com

Parts are produced utilizing newly engineered resins that are Mask-Cured by state of the art light processing for solid imaging creating functional rapid prototype parts.

Specializing in the Production of Functional Rapid Prototype and Rapid Manufactured Components



- **New Applications**
- **Ultra High Resolution**
- **High Strength**
- **Heat and Chemical resistance**
- **Functional Rapid Prototype Parts**
- **Rapid / Direct Manufacturing**



Synergeering Group
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Farmington Hills, Michigan 48335

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Available Materials

NanoCeramic-223

A nanoparticle-filled material that produces strong, stiff, high temperature resistant composite parts.

Applications: Automotive components, pump housings, wind tunnel test parts and mold inserts.

A^{CE}BS-58

Produces durable water-resistant ABS like parts with high detail. Parts are class IIa biocompatible and are CE certified for use as medical devices.

Applications: Medical components, tough functional prototypes, appearance models.

PolyPro-50

Produces parts with polypropylene like material properties that include high detail quality, chemical resistance and rigidity.

Applications: Medical products, electrical housings, snap fit components, consumer products and automobile applications.



MATERIAL PROPERTIES

	Tensile Strength (MPa)	Tensile Modulus (MPa)	Elongation at Break	Flexural Strength (MPa)	Flexural Modulus (MPa)	Hardness (Shore D)	Impact Strength (J/m)	Heat Deflection Temperature (°C)
Test Method	ASTM D638	ASTM D638	ASTM D638	ASTM D790M	ASTM D790M	D2240	ASTM D256A	DC648 - 98c
NanoCeramic-223	46	4,890	2.5%	102	3,860	93.1	16	67 (Post Cured) 223 (Thermal Cured)
PolyPro-50	31-39	1,245 -1,510	11 - 25%	40 - 45	1,190 -1,383	81	27 - 50	84.5 - 102.6
A^{CE}BS-58	57.8	2400	6%	103	2300	83	21.1	63

Data reported above are provided by the material supplier. Actual values may vary.



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