

Perfactory® R11

Acrylic

EnvisionTEC, Inc.

Message:

R5 and R11 is a liquid photopolymer that produces robust, accurate, and functional parts. The material offers superior chemical resistance, a wide processing latitude, and excellent tolerance to a broad temperature and humidity range during and after build. Parts created from R5 and R11 exhibit superior fatigue properties, strong memory retention, and high quality up-facing and down-facing surfaces. R5 and R11 also offers a good balance of properties between rigidity and functionality.

Applications

Aerospace, Animation and Entertainment, Architecture and Art, Automotive, Consumer Packaged Goods, Education, Electronics, Manufacturing, Sporting Goods, Toys

Recommended Machines:

Perfactory® 4 Standard with ERM, Perfactory® 4 Standard XL with ERM

General Information			
Features	Fatigue Resistant Good Chemical Resistance Good Surface Finish Good Thermal Stability Humidity Resistant Medium Rigidity		
Uses	Aerospace Applications Automotive Applications Consumer Applications Electrical/Electronic Applications Engineering Parts Modeling Material Prototyping Sporting Goods Toys		
Appearance	Red		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Water Absorption (Equilibrium)	0.71	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1250 to 1510	MPa	ASTM D638
Tensile Strength	50.0	MPa	ASTM D638
Tensile Elongation			ASTM D638

Yield	13	%	
Break	8.0	%	
Flexural Modulus	2450	MPa	ASTM D790
Flexural Strength	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256A

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Recommended distributors for this material

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