

Perfactory® RC25

Unspecified

EnvisionTEC, Inc.

Message:

The EnvisionTEC RC25 is a high temperature resistant resin for building tough and stiff parts. RC25 is a nanoparticle filled material that is used to build hard-wearing, stiff and high temperature resistant parts. They have an opaque peach color appearance.

Applications

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

Cleaning, drying and post curing is to be carried out as described in EnvisionTEC's postprocessing instructions for this material. Recommendation: use incubator. Post curing of parts in Otofash with 4,000 flashes.

Recommended Machines:

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

General Information			
Filler / Reinforcement	Aluminum		
Features	Durable		
	Good Stiffness		
	Good Toughness		
	High Heat Resistance		
Uses	Aerospace Applications		
	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	Modeling Material		
	Prototyping		
	Sporting Goods		
	Toys		
Appearance	Opaque		
	Tan		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Water Absorption (Equilibrium)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	93		ASTM D1004
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4890	MPa	ASTM D638
Tensile Strength	46.0	MPa	ASTM D638

Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	3860	MPa	ASTM D790
Flexural Strength	102	MPa	ASTM D790
Compressive Modulus	4490	MPa	ASTM D695
Compressive Strength	< 127	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16.0	J/m ²	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	67.0	°C	
1.8 MPa, Unannealed	53.6	°C	
Glass Transition Temperature	42.0	°C	ASTM E1545

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Recommended distributors for this material

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