

RESINAS RÍGIDAS ESTÁNDAR

	DIMENSIONES MÁXIMAS (MM)	MATERIALES	COLOR	ACABADO	DATOS TÉCNICOS						CARACTERÍSTICAS																																																																		
POLYJET	191 x 292 x 145		AZUL	Altura de capa de 24 micras. Brillo o mate en función de geometría.		ASTM	Units	Metric	Units	Imperial																																																																			
					Tensile strength	D-638-03	MPa	50-60	psi	7250-8700																																																																			
					Elongation at break	D-638-05	%	15-25	%	15-25																																																																			
					Modulus of elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000																																																																			
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					Flexural Modulus	D-790-04	MPa	1900-2500	psi	265,000-365,000																																																																			
					HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122																																																																			
					HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122																																																																			
					Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562																																																																			
					Water Absorption	D-570-98 24hr	%	1.5-2.2	%	1.5-2.2																																																																			
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Polymerized density	ASTM D792	g/cm3	1.18-1.19																																																																										
Ash content	USP281	%	0.21-0.22	%	0.21-0.22																																																																								
SLA	145x145x175	TRANSLÚCIDO BLANCO GRIS NEGRO		Altura de capa configurable de 100, 50 o 25 micras. (la altura máxima puede verse reducida por la necesidad de introducir soportes en la fabricación).	<table><tr><th></th><th colspan="2">METRIC</th><th colspan="2">IMPERIAL</th><th>METHOD</th></tr><tr><th></th><th>Green</th><th>Postcured</th><th>Green</th><th>Postcured</th><th></th></tr><tr><td colspan="6">Mechanical Properties</td></tr><tr><td>Tensile Strength at Yield</td><td>38 MPa</td><td>65 MPa</td><td>5510 psi</td><td>9380 psi</td><td>ASTM D 638-10</td></tr><tr><td>Young's Modulus</td><td>1.6 GPa</td><td>2.8 GPa</td><td>234 ksi</td><td>402 ksi</td><td>ASTM D 638-10</td></tr><tr><td>Elongation at Failure</td><td>12 %</td><td>6.2 %</td><td>12 %</td><td>6.2 %</td><td>ASTM D 638-10</td></tr><tr><td>Flexural Modulus</td><td>1.25 GPa</td><td>2.2 GPa</td><td>181 ksi</td><td>320 ksi</td><td>ASTM C 790-10</td></tr><tr><td>Notched IZOD</td><td>16 J/m</td><td>25 J/m</td><td>0.3 ft-lbf/in</td><td>0.46 ft-lbf/in</td><td>ASTM D 256-10</td></tr><tr><td colspan="6">Thermal Properties</td></tr><tr><td>Heat deflection temp. @ 264 psi</td><td>42.7 °C</td><td>58.4 °C</td><td>108.9 °F</td><td>137.1 °F</td><td>ASTM D 648-07</td></tr><tr><td>Heat deflection temp. @ 66 psi</td><td>49.7 °C</td><td>73.1 °C</td><td>121.5 °F</td><td>163.6 °F</td><td>ASTM D 648-07</td></tr></table>							METRIC		IMPERIAL		METHOD		Green	Postcured	Green	Postcured		Mechanical Properties						Tensile Strength at Yield	38 MPa	65 MPa	5510 psi	9380 psi	ASTM D 638-10	Young's Modulus	1.6 GPa	2.8 GPa	234 ksi	402 ksi	ASTM D 638-10	Elongation at Failure	12 %	6.2 %	12 %	6.2 %	ASTM D 638-10	Flexural Modulus	1.25 GPa	2.2 GPa	181 ksi	320 ksi	ASTM C 790-10	Notched IZOD	16 J/m	25 J/m	0.3 ft-lbf/in	0.46 ft-lbf/in	ASTM D 256-10	Thermal Properties						Heat deflection temp. @ 264 psi	42.7 °C	58.4 °C	108.9 °F	137.1 °F	ASTM D 648-07	Heat deflection temp. @ 66 psi	49.7 °C	73.1 °C	121.5 °F	163.6 °F	ASTM D 648-07	- Alta resolución. - Dureza y precisión. - Gran acabado superficial. - Resultados increíbles.
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NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

RESINAS SECTOR INDUSTRIAL (1/3)

DIMENSIONES MÁXIMAS (MM)		MATERIALES	COLOR	ACABADO	DATOS TÉCNICOS						CARACTERÍSTICAS
SLA	145x145x175	SIMILAR AL ABS		Altura de capa configurable de 100 o 50 micras.	METRIC		IMPERIAL		METHOD		• Robusto. • Resistente a las roturas. • Soporta tensiones y situaciones de estrés. Ideal para: • Juntas de encaje a presión. • Ensamblajes. • Prototipos robustos.
						Green	Post-Cured	Green	Post-Cured		
					Mechanical Properties						
					Tensile Strength	34.7 MPa	55.7 MPa	5040 psi	8080 psi	ASTM D 638-14	
					Young's Modulus	1.7 GPa	2.7 GPa	239 ksi	387 ksi	ASTM D 638-14	
					Elongation at Break	42 %	24 %	42 %	24 %	ASTM D 638-14	
					Flexural Strength at 5% Strain	20.8 MPa	60.6 MPa	3020 psi	8790 psi	ASTM D 790-15	
					Flexural Modulus	0.6 GPa	1.6 GPa	90.3 ksi	241 ksi	ASTM D 790-15	
					Notched IZOD	32.6 J/m	38 J/m	0.61 ft-lbf/in	0.71 ft-lbf/in	ASTM D 256-10	
					Thermal Properties						
					Heat Deflection Temp. @ 1.8 MPa	32.8 °C	45.9 °C	91.1 °F	114.6 °F	ASTM D 648-16	
					Heat Deflection Temp. @ 0.45 MPa	40.4 °C	48.5 °C	104.7 °F	119.3 °F	ASTM D 648-16	
					Thermal Expansion (23 – 50 °C)	159.7 µm/m/°C	119.4 µm/m/°C	88.7 µm/m/°F	66.3 µm/m/°F	ASTM E 831-13	
					METRIC		IMPERIAL		METHOD		
						Green	Post-Cured	Green	Post-Cured		
	Tensile Properties										
	Tensile Strength at Yield	18.6 MPa	31.8 MPa	2.7 ksi	4.61 ksi	ASTM D 638-10					
	Tensile Modulus	0.45 GPa	1.26 GPa	65.7 ksi	183 ksi	ASTM D 638-10					
	Elongation	67 %	49 %	67 %	49 %	ASTM D 638-10					
	Flexural Properties										
	Flexural Stress at 5% Strain	4.06 MPa	27.2 MPa	0.59 ksi	3.95 ksi	ASTM D 790-10, Procedure A					
	Flexural Modulus	0.16 GPa	0.82 GPa	23.4 ksi	119 ksi	ASTM D 790-10, Procedure A					
	Impact Properties										
	IZOD Impact Strength	130.8 J/m	109 J/m	2.46 ft-lbf/in	2.05 ft-lbf/in	ASTM D 256-10, Test Method A					
	Temperature Properties										
Heat Deflection Temp. @ 0.45 MPa	< 30 °C	43.3 °C	< 86 °F	110 °F	ASTM D 648-07, Method B						
Thermal Expansion from 23 to 50°C	117.0 µm/m/°C	145.1 µm/m/°C	65.0 µin/in/°F	80.6 µin/in/°F	ASTM E831-14						
		SIMILAR AL PP/HDPE		(Polipropileno/ Polietileno de alta densidad)	Altura de capa configurable de 100 o 50 micras.					• Dúctil y resistente al desgaste. • Apto para piezas deformables. • Acabado liso y brillante. Ideal para: • Prototipado de productos de consumo. • Cajas/envases resistentes al impacto. • Piezas móviles de baja fricción y desgaste. • Ajustes rápidos y juntas de rótula.	
METRIC						IMPERIAL		METHOD			
	Green					Post-Cured	Green	Post-Cured			
Tensile Properties											
Tensile Strength at Yield	18.6 MPa					31.8 MPa	2.7 ksi	4.61 ksi	ASTM D 638-10		
Tensile Modulus	0.45 GPa					1.26 GPa	65.7 ksi	183 ksi	ASTM D 638-10		
Elongation	67 %					49 %	67 %	49 %	ASTM D 638-10		
Flexural Properties											
Flexural Stress at 5% Strain	4.06 MPa					27.2 MPa	0.59 ksi	3.95 ksi	ASTM D 790-10, Procedure A		
Flexural Modulus	0.16 GPa					0.82 GPa	23.4 ksi	119 ksi	ASTM D 790-10, Procedure A		
Impact Properties											
IZOD Impact Strength	130.8 J/m	109 J/m	2.46 ft-lbf/in	2.05 ft-lbf/in	ASTM D 256-10, Test Method A						
Temperature Properties											
Heat Deflection Temp. @ 0.45 MPa	< 30 °C	43.3 °C	< 86 °F	110 °F	ASTM D 648-07, Method B						
Thermal Expansion from 23 to 50°C	117.0 µm/m/°C	145.1 µm/m/°C	65.0 µin/in/°F	80.6 µin/in/°F	ASTM E831-14						

NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

RESINAS SECTOR INDUSTRIAL (2/3)

DIMENSIONES MÁXIMAS (MM)		MATERIALES	COLOR	ACABADO	DATOS TÉCNICOS						CARACTERÍSTICAS	
SLA	145x145x175	FLEXIBLE		Altura de capa configurable de 100 o 50 micras.							• Simula al caucho de 80A. • Puede ser doblado y comprimido. • Tacto suave. Ideal para: • Mangos, empuñaduras y sobremoldeo. • Cojinetes y amortiguaciones. • Wearables. • Fundas. • Sellos de goma.	

NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

RESINAS SECTOR INDUSTRIAL (3/3)

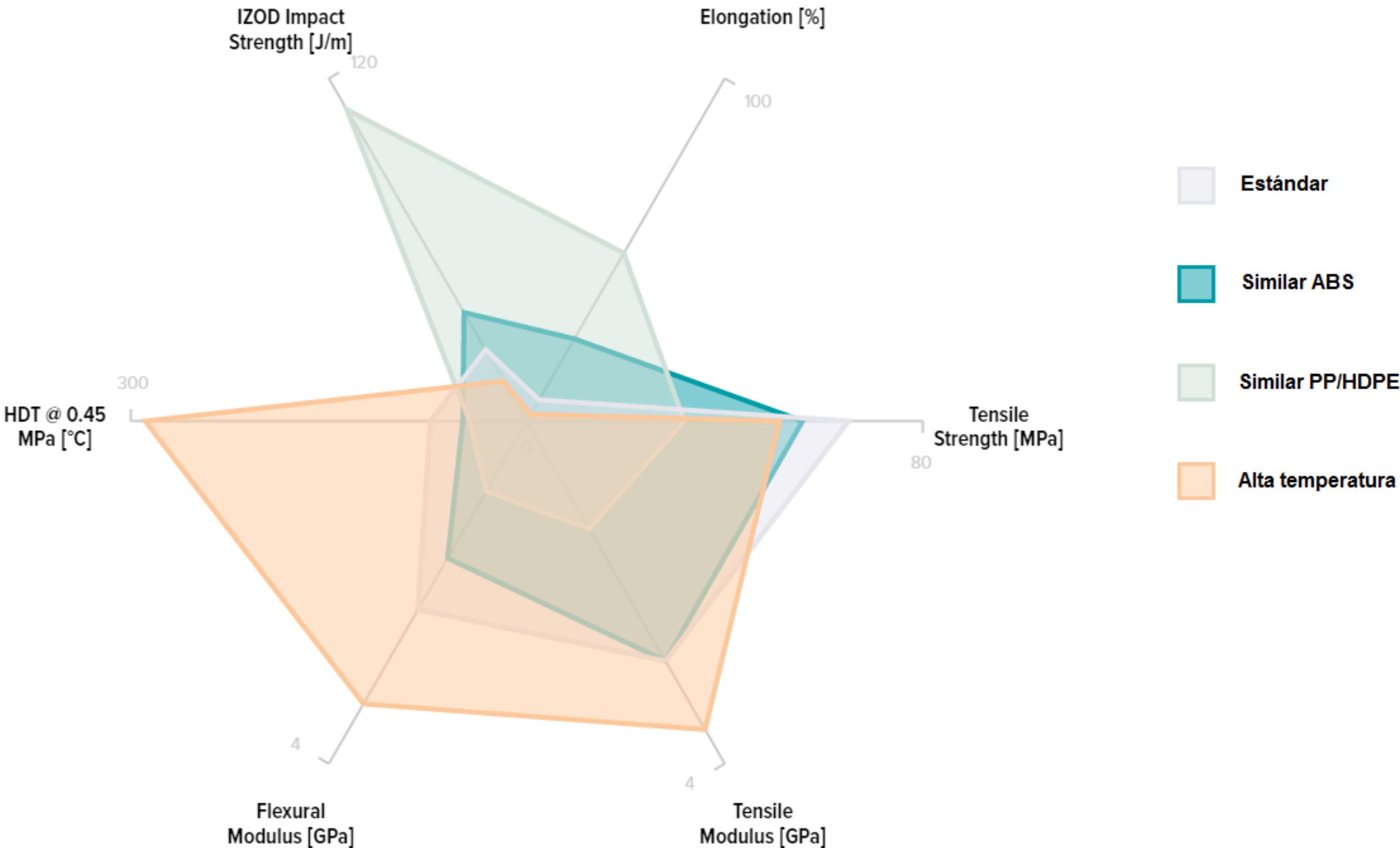
DIMENSIONES
MÁXIMAS
(MM)

TABLA COMPARATIVA

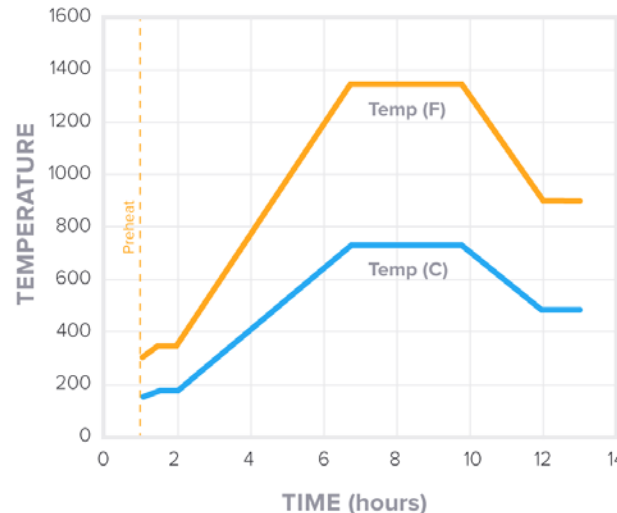
145x145x175

(la altura máxima puede verse reducida por la necesidad de introducir soportes en la fabricación)

SLA



RESINA SECTOR JOYERÍA

DIMENSIONES MÁXIMAS (MM)		MATERIALES	COLOR	ACABADO	DATOS TÉCNICOS		CARACTERÍSTICAS																										
SLA	145x145x175	CASTABLE		Altura de capa configurable de 100, 50 o 25 micras.	<table><tr><th>Metric</th><th>Imperial</th><th>Method</th></tr><tr><td colspan="3">Mechanical Properties</td></tr><tr><td>Tensile Strength at Break</td><td>11.6 MPa</td><td>1680 psi</td><td>ASTM D 638-10</td></tr><tr><td>Young's Modulus</td><td>220 MPa</td><td>32 ksi</td><td>ASTM D 638-10</td></tr><tr><td>Elongation at Failure</td><td>13 %</td><td>13 %</td><td>ASTM D 638-10</td></tr></table>		Metric	Imperial	Method	Mechanical Properties			Tensile Strength at Break	11.6 MPa	1680 psi	ASTM D 638-10	Young's Modulus	220 MPa	32 ksi	ASTM D 638-10	Elongation at Failure	13 %	13 %	ASTM D 638-10	• Diseñada para fundición en inversión. • Funde sin dejar residuos. • Gran acabado superficial. • Impresión precisa y detallada.								
	Metric				Imperial	Method																											
	Mechanical Properties																																
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Elongation at Failure	13 %	13 %	ASTM D 638-10																														
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					<table><tr><th colspan="3">PROCESS</th></tr><tr><td>Preheat</td><td>300 °F/h</td><td>167 °C</td></tr><tr><td>Insert flask</td><td>300 °F</td><td>167 °C</td></tr><tr><td>Ramp</td><td>100 °F/h</td><td>56 °C/h</td></tr><tr><td>Hold</td><td>350 °F, 30 min</td><td>177 °C, 30 min</td></tr><tr><td>Ramp</td><td>210 °F/h</td><td>117 °C/h</td></tr><tr><td>Hold</td><td>1350 °F, 3 h</td><td>732 °C, 3 h</td></tr><tr><td>Ramp</td><td>-200 °F/h</td><td>-111 °C/h</td></tr><tr><td>Hold</td><td>900 °F, 1 h</td><td>482 °C, 1 h</td></tr></table>		PROCESS			Preheat	300 °F/h	167 °C	Insert flask	300 °F	167 °C	Ramp	100 °F/h	56 °C/h	Hold	350 °F, 30 min	177 °C, 30 min	Ramp	210 °F/h	117 °C/h	Hold	1350 °F, 3 h	732 °C, 3 h	Ramp	-200 °F/h	-111 °C/h	Hold	900 °F, 1 h	482 °C, 1 h
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					Recommended Investment: R&R Platicast with BANDUST																												

NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

**DIMENSIONES
MÁXIMAS
(MM)**

COLOR

ACABADO

DATOS TÉCNICOS

CARACTERÍSTICAS

SLA

145x145x175

(la altura máxima puede verse reducida por la necesidad de introducir soportes en la fabricación)

DENTAL SG



Altura de capa configurable de 100, 50 o 25 micras.

	METRIC	METHOD
	Postcured	
Flexural Properties		
Flexural Strength	≥ 50 MPa	ISO 20795-1:2013
Flexural Modulus	≥ 1500 Mpa	ISO 20795-1:2013
Hardness Properties		
Hardness Shore D	≥ 80D	per ISO 868:2003
Impact Properties		
Charpy Impact Strength Unnotched	12 – 14 kg/m	ISO 179:2010

Dental SG is tested at NAMSA, Chasse sur Rhône in France, and is certified biocompatible per EN-ISO 10993-1:2009/AC:2010

- Non-mutagenic.
- Non-cytotoxic.
- Not induce any erythema or edema reactions.
- Not a sensitizer.
- Not cause systemic toxicity.

The product is in compliance with ISO Standards:

- EN-ISO 20795-1:2013 (Dentistry – Base Polymers – Part 1: Denture Base Polymers)
- EN-ISO 7405:2009/A1:2013 (Dentistry – Evaluation of biocompatibility of medical devices used in dentistry)
- EN-ISO 10993-1:2009/AC:2010 (Biological evaluation of medical devices – Part 1 – Evaluation and testing)

- Material **Biocompatible de CLASE 1.**

Ideal para:

- Imprimir guías quirúrgicas precisas en implantes.
- Fabricar alineadores, tabilllas, bandejas de unión directa u otros dispositivos usando máquina de formación al vacío.
- Planificación de tratamientos.
- Examinación de anatomías para diagnóstico.

NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

RESINAS RÍGIDAS ESTÁNDAR

DIMENSIONES MÁXIMAS (MM)		MATERIALES	COLOR	ACABADO	DATOS TÉCNICOS						CARACTERÍSTICAS																																																																																													
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Ash content VeroBlackPlus	USP281	%	0.01-0.02	%	0.01-0.02																																																																																																			
<table><tr><th></th><th>ASTM</th><th>Units</th><th>Metric</th><th>Units</th><th>Imperial</th></tr><tr><td>Tensile strength</td><td>D-638-03</td><td>MPa</td><td>50-65</td><td>psi</td><td>7250-9450</td></tr><tr><td>Elongation at break</td><td>D-638-05</td><td>%</td><td>10-25</td><td>%</td><td>10-25</td></tr><tr><td>Modulus of elasticity</td><td>D-638-04</td><td>MPa</td><td>2000-3000</td><td>psi</td><td>290,000-435,000</td></tr><tr><td>Flexural Strength</td><td>D-790-03</td><td>MPa</td><td>75-110</td><td>psi</td><td>11000-16000</td></tr><tr><td>Flexural Modulus</td><td>D-790-04</td><td>MPa</td><td>2200-3200</td><td>psi</td><td>320,000-465,000</td></tr><tr><td>HDT, °C @ 0.45MPa</td><td>D-648-06</td><td>°C</td><td>45-50</td><td>°F</td><td>113-122</td></tr><tr><td>HDT, °C @ 1.82MPa</td><td>D-648-07</td><td>°C</td><td>45-50</td><td>°F</td><td>113-122</td></tr><tr><td>Izod Notched Impact</td><td>D-256-06</td><td>J/m</td><td>20-30</td><td>ft lb/inch</td><td>0.375-0.562</td></tr><tr><td>Water Absorption</td><td>D-570-98 24hr</td><td>%</td><td>1.1-1.5</td><td>%</td><td>1.1-1.5</td></tr><tr><td>Tg</td><td>DMA, E»</td><td>°C</td><td>52-54</td><td>°F</td><td>126-129</td></tr><tr><td>Shore Hardness (D)</td><td>Scale D</td><td>Scale D</td><td>83-86</td><td>Scale D</td><td>83-86</td></tr><tr><td>Rockwell Hardness</td><td>Scale M</td><td>Scale M</td><td>73-76</td><td>Scale M</td><td>73-76</td></tr><tr><td>Polymerized density</td><td>ASTM D792</td><td>g/cm3</td><td>1.18-1.19</td><td></td><td></td></tr><tr><td>Ash content</td><td>USP281</td><td>%</td><td>0.02-0.06</td><td>%</td><td>0.02-0.06</td></tr></table>							ASTM	Units	Metric	Units	Imperial	Tensile strength	D-638-03	MPa	50-65	psi	7250-9450	Elongation at break	D-638-05	%	10-25	%	10-25	Modulus of elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000	Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000	Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000	HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122	HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122	Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562	Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5	Tg	DMA, E»	°C	52-54	°F	126-129	Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86	Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76	Polymerized density	ASTM D792	g/cm3	1.18-1.19			Ash content	USP281	%	0.02-0.06	%	0.02-0.06	Ideales para prototipado rápido y desarrollo de producto.								
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NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

RESINAS SECTOR INDUSTRIAL (1/2)

DIMENSIONES MÁXIMAS (MM)				MATERIALES		COLOR	ACABADO	DATOS TÉCNICOS						CARACTERÍSTICAS																																																																																					
POLYJET	191 x 292 x 145	SIMILAR PP (RGD 430)		Altura de capa de 24 micras.	Brillo o mate en función de geometría.			<table><tr><th></th><th>ASTM</th><th>Units</th><th>Metric</th><th>Units</th><th>Imperial</th></tr><tr><td>Tensile strength</td><td>D-638-03</td><td>MPa</td><td>20-30</td><td>psi</td><td>2900-4350</td></tr><tr><td>Elongation at break</td><td>D-638-05</td><td>%</td><td>40-50</td><td>%</td><td>40-50</td></tr><tr><td>Modulus of elasticity</td><td>D-638-04</td><td>MPa</td><td>1000-1200</td><td>psi</td><td>145,000-175,000</td></tr><tr><td>Flexural Strength</td><td>D-790-03</td><td>MPa</td><td>30-40</td><td>psi</td><td>4350-5800</td></tr><tr><td>Flexural Modulus</td><td>D-790-04</td><td>MPa</td><td>1200-1600</td><td>psi</td><td>175,000-230,000</td></tr><tr><td>HDT, °C @ 0.45MPa</td><td>D-648-06</td><td>°C</td><td>37-42</td><td>°F</td><td>99-108</td></tr><tr><td>HDT, °C @ 1.82MPa</td><td>D-648-07</td><td>°C</td><td>32-34</td><td>°F</td><td>90-93</td></tr><tr><td>Izod Notched Impact</td><td>D-256-06</td><td>J/m</td><td>40-50</td><td>ft lb/inch</td><td>0.749-0.937</td></tr><tr><td>Water Absorption</td><td>D-570-98 24hr</td><td>%</td><td>1.5-1.9</td><td>%</td><td>1.5-1.9</td></tr><tr><td>Tg</td><td>DMA, E»</td><td>°C</td><td>35-37</td><td>°F</td><td>95-99</td></tr><tr><td>Shore Hardness (D)</td><td>Scale D</td><td>Scale D</td><td>74-78</td><td>Scale D</td><td>74-78</td></tr><tr><td>Rockwell Hardness</td><td>Scale M</td><td>Scale M</td><td>no data</td><td>Scale M</td><td>no data</td></tr><tr><td>Polymerized density</td><td>ASTM D792</td><td>g/cm3</td><td>1.15-1.17</td><td></td><td></td></tr><tr><td>Ash content</td><td>USP281</td><td>%</td><td>0.10-0.12</td><td>%</td><td>0.1-0.12</td></tr></table>		ASTM	Units	Metric	Units	Imperial	Tensile strength	D-638-03	MPa	20-30	psi	2900-4350	Elongation at break	D-638-05	%	40-50	%	40-50	Modulus of elasticity	D-638-04	MPa	1000-1200	psi	145,000-175,000	Flexural Strength	D-790-03	MPa	30-40	psi	4350-5800	Flexural Modulus	D-790-04	MPa	1200-1600	psi	175,000-230,000	HDT, °C @ 0.45MPa	D-648-06	°C	37-42	°F	99-108	HDT, °C @ 1.82MPa	D-648-07	°C	32-34	°F	90-93	Izod Notched Impact	D-256-06	J/m	40-50	ft lb/inch	0.749-0.937	Water Absorption	D-570-98 24hr	%	1.5-1.9	%	1.5-1.9	Tg	DMA, E»	°C	35-37	°F	95-99	Shore Hardness (D)	Scale D	Scale D	74-78	Scale D	74-78	Rockwell Hardness	Scale M	Scale M	no data	Scale M	no data	Polymerized density	ASTM D792	g/cm3	1.15-1.17			Ash content	USP281	%	0.10-0.12	%	0.1-0.12	- Apto para piezas deformables. - Resistente a impactos. - Bonito acabado superficial.
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NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.

RESINAS SECTOR INDUSTRIAL (2/2)

DIMENSIONES MÁXIMAS (MM)	MATERIALES	COLOR	ACABADO	DATOS TÉCNICOS	CARACTERÍSTICAS
POLYJET	191 x 292 x 145	ALTA TEMPERATURA (RGD 525)	 Brillo o mate en función de geometría.	Altura de capa de 24 micras.	- Combina resistencia térmica y estabilidad dimensional. Ideal para: - Pruebas de ajuste y funcionamiento térmico de piezas estáticas. - Pruebas de aire y fluidos calientes. - Pruebas en condiciones ambientales reales.

NOTA: Las propiedades de las piezas impresas pueden variar en función de la orientación, la geometría de la pieza y la temperatura ambiente.