Digital ABS

POLYJET MATERIAL

Utilizing PolyJet Technology

PolyJet technology creates precise prototypes that set the standard for finished product realism. Their fine resolution makes complex shapes, intricate details, and smooth surfaces possible.

PolyJet 3D Printing works by jetting layers of liquid photopolmyer onto a build tray and instantly curing them with UV light. The fine layers build up to create a precise 3D model or prototype. Models are ready to handle right out of the 3D printer, with no post-curing needed.

Digital ABS is designed to simulate ABS engineering plastics by combining high-temperature resistances with high toughness. Digital ABS is suitable for any simulated parts that require high-impact resistance and shock absorption.

DIGITAL ABS, IVORY (RGD5130-DM, RGD5131-DM) MADE OF RGD515 & RGD531

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	55-60	psi	8000-8700
Elongation at break	D-638-05	%	25-40	%	25-40
Modulus of elasticity	D-638-04	MPa	2600-3000	psi	375,000-435,000
Flexural Strength	D-790-03	MPa	65-75	psi	9,500-11,000
Flexural Modulus	D-790-04	MPa	1700-2200	psi	245,000-320,000
HDT, °C @ 0.45MPa	D-648-06	°C	58-68	°F	136-154
HDT, °C @ 0.45MPa after thermal post treatment procedure A	D-648-06	°C	82-90	°F	180-194
HDT, °C @ 0.45MPa after thermal post treatment procedure B	D-648-06	°C	92-95	°F	198-203
HDT, °C @ 1.82MPa	D-648-07	°C	51-55	°F	124-131
Izod Notched Impact	D-256-06	J/m	65-80	ft lb/inch	1.22-1.50
Tg	DMA, E»	°C	47-53	°F	117-127
Shore Hardness (D)	Scale D	Scale D	85-87	Scale D	85-87
Rockwell Hardness	Scale M	Scale M	67-69	Scale M	67-69
Polymerized density	ASTM D792	g/cm3	1.17-1.18		

Data Provided by Stratasys

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