



# High Temperature

## HEAT-RESISTANT POLYJET MATERIAL

High Temperature offers the highest heat deflection of any standalone PolyJet™ material, ideal for thermal testing prototypes that require high heat resistance. High Temperature also offers excellent surface quality, strength and stiffness, simulating the thermal performance and strength of engineering plastics.

With a heat deflection temperature of 80 °C after thermal treatment, High Temperature is ideal for testing static parts and hot-air flow or hot-water flow in pipes and faucets. Create heat-resistant parts with varying Shore A values by combining High Temperature with PolyJet rubberlike materials.

Build heat-resistant, high-definition parts ideal for form, fit and thermal functional testing such as models that must endure strong lighting conditions, taps, pipes and household appliances.



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### PRODUCT SPECIFICATIONS

#### At the core: 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 photopolymer 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.

#### Keep valuable resources in-house

You'll be amazed when you see how easy it is to produce realistic models in-house. PolyJet 3D Printers offer not only unparalleled speed, they make it easy for you to print with the widest range of material properties.

#### No special facilities needed

You can install PolyJet 3D Printers just about anywhere. No special venting is required because PolyJet 3D Printers don't produce noxious fumes, chemicals or waste.

#### Good ideas sell easier

PolyJet 3D Printers improve communication and collaboration because they produce amazingly accurate representations of your ideas that you can share with your team and your clients for a faster, more confident buy-in.

	ASTM	METRIC	IMPERIAL
Tensile strength	D-638-03	70-80 MPa	10,000-11,500 psi
Elongation at break	D-638-05	10-15%	10-15%
Modulus of elasticity	D-638-04	3,200-3,500 MPa	465,000-510,000 psi
Flexural Strength	D-790-03	110-130 MPa	16,000-19,000 psi
Flexural Modulus	D-790-04	3,100-3,500 MPa	450,000-510,000 psi
HDT, °C @ 0.45 MPa	D-648-06	63-67 °C	145-163 °F
HDT, °C @ 0.45 MPa after thermal post treatment procedure A	D-648-06	75-80 °C	167-176 °F
HDT, °C @ 1.82MPa	D-648-07	55-57 °C	131-135 °F
Izod Notched Impact	D-256-06	14-16 J/m	0.262-0.300 ft lb/inch
Water Absorption, %	D-570-98 24hr	1.2-1.4%	1.2-1.4%
Tg	DMA, E»	62-65 °C	144-149 °F
Shore Hardness D	Scale D	87-88 Scale D	87-88 87-88 Scale D
Rockwell Hardness	Scale M	78-83 Scale M	78-83 87-88 Scale m
Polymerized density	ASTM D792	1.17-1.18 g/cm3	
Ash content	USP281	0.38-0.42%	0.38-0.42

SYSTEM AVAILABILITY	SUPPORT STRUCTURE	AVAILABLE COLORS
OBJET30 PRO OBJET30 PRIME™	SUP705 (WaterJet removable)	<input type="checkbox"/> White
OBJET EDEN260VS™	SUP706 (soluble)	
OBJET260/500 CONNEX1™ OBJET260/350/500 CONNEX3™		



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