



Digital ABS Plus

POLYJET SIMULATED ABS PLASTIC

Digital ABS Plus™ is designed to simulate standard ABS plastics by combining high-temperature resistance with toughness. Suitable for parts that require PolyJet™ technology's highest possible impact resistance and shock absorption, Digital ABS Plus significantly improves the mechanical performance of parts and prototypes for design verification and functional performance testing. Get better impact strength with high-temperature resistance, toughness and superior finish. Digital ABS Plus is ideal for rapid prototyping snap-fit parts for high or low temperature use, functional designs with multi-material versatility and flexibility, molds, manufacturing tools, electrical parts and more.



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At the core: PolyJet Technology

PolyJet technology creates precise prototypes that set the standard for finished-product realism. Its 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.

| MECHANICAL PROPERTIES | TEST METHOD | IMPERIAL | IMPERIAL METRIC |
|--|---------------------|---------------------|-----------------------------|
| Tensile Strength | D-638-03 | 8,000-8,700 psi | 55-60 MPa |
| Elongation at Break | D-638-05 | 25-40% | 25-40% |
| Modulus of Elasticity | D-638-04 | 375,000-435,000 psi | 2,600-3,000 MPa |
| Flexural Strength | D-790-03 | 9,500-11,000 psi | 65-75 MPa |
| Flexural Modulus | D-790-04 | 245,000-320,000 psi | 1,700-2,200 MPa |
| HDT, °C @ 0.45MPa | D-648-06 | 136-154 °F | 58-68 °C |
| HDT, °C @ 0.45MPa after thermal post treatment procedure A | D-648-06 | 180-194 °F | 82-90 °C |
| HDT, °C @ 0.45MPa after thermal post treatment procedure B | D-648-06 | 198-203 °F | 92-95 °C |
| HDT, °C @ 1.82MPa | D-648-07 | 124-131 °F | 51-55 °C |
| Izod Notched Impact | D-256-06 | 1.69-2.15 ft lb/in | 90-115 J/m |
| Tg | DMA, E ^o | 117-127 °F | 47-53 °C |
| Shore Hardness (D) | Scale D | 85-87 Scale D | 85-87 Scale D |
| Rockwell Hardness | Scale M | 67-69 Scale M | 67-69 Scale M |
| Polymerized Density | ASTM D792 | | 1.17-1.18 g/cm ³ |

| SYSTEM AVAILABILITY | LAYER THICKNESS CAPABILITY | SUPPORT STRUCTURE | AVAILABLE COLORS |
|--|--|--|--------------------------------|
| Objet260/350/500 Connex3™ | Digital Material 2/3 mode: 30 microns (0.0012 in.) | SUP705 (WaterJet removable) | Green (RGD515 Plus and RGD535) |
| Stratasys J735™ Stratasys J750™ | High Mix or High Speed mode: 27 microns (0.0011 in.) High Quality mode: 14 microns (0.00055 in.) | SUP706* (soluble) Objet1000 uses only SUP705 | Ivory (RGD515 Plus and RGD531) |
| Objet1000 Plus™ | Digital Material 2 mode: 36 microns (0.0014 in.) | | |

* Not compatible with or HQ mode for Stratasys J750.

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