

Durus

Durus™ (RGD430) is the original simulated polypropylene material and exhibits great impact resilience and an elongation at break of 44 percent. Delicate features and small cavities are easily maintained with easily removed support material.

	ASTM	Value
Tensile Strength	D-638-03	2,900 – 4,350 psi (20 – 30 MPa)
Elongation at Break	D-638-05	40 – 50%
Modulus of Elasticity	D-638-04	145,000 – 175,000 psi (1,000 – 1,200 MPa)
Flexural Strength	D-790-03	4,350 – 5,800 psi (30 – 40 MPa)
Flexural Modulus	D-790-04	175,000 – 230,000 psi (1,200 – 1,600 MPa)
HDT, °C @ 0.45MPa	D-648-06	99 – 108 °F (37 – 42 °C)
HDT, °C @ 1.82MPa	D-648-07	90 – 93 °F (32 – 34 °C)
Izod Notched Impact	D-256-06	0.749 – 0.937 ft lb/inch (40 – 50 J/m)
Water Absorption	D-570-98 24hr	1.5 – 1.9%
Tg	DMA, E _s	95 – 99 °F (35 – 37 °C)
Shore Hardness (D)	Scale D	74 – 78 Scale D
Polymerized Density	D792	1.15 – 1.17 g/cm ³
Ash Content	USP281	0.1-0.12%

System Availability

Printer	Minimum Layer Thickness Capability	Support Structure	Available Color
Objet30 Pro	14 microns (0.00055 in.)	SUP705™ (WaterJet removable) SUP706™ (soluble and WaterJet removable)	■ Ivory
Objet30 Prime™	14 microns (0.00055 in.)	SUP705 (WaterJet removable) SUP706 (soluble and WaterJet removable)	■ Ivory
Objet Eden260VS™	14 microns (0.00055 in.)	SUP705 (WaterJet removable) SUP706 (soluble and WaterJet removable)	■ Ivory
Objet260 Connex1™	14 microns (0.00055 in.)	SUP705 (WaterJet removable) SUP706 (soluble and WaterJet removable)	■ Ivory
Objet260 Connex3™	14 microns (0.00055 in.)	SUP705 (WaterJet removable) SUP706 (soluble and WaterJet removable)	■ Ivory

Durus

System Availability (Continued)

System Availability	Minimum Layer Thickness Capability	Support Structure	Available Color
Objet350 Connex3™	14 microns	SUP705 (WaterJet removable)	■ Ivory
	(0.00055 in.)	SUP706 (soluble and WaterJet removable)	
Objet500 Connex1™	14 microns	SUP705 (WaterJet removable)	■ Ivory
	(0.00055 in.)	SUP706 (soluble and WaterJet removable)	
Objet500 Connex3™	14 microns	SUP705 (WaterJet removable)	■ Ivory
	(0.00055 in.)	SUP706 (soluble and WaterJet removable)	

3DPB Headquarters

3D Print Bureau Ltd
Normacot Road
Longton, Stoke-on-Trent

Staffordshire
ST3 1PR
+44 (0)1782 757320
contactus@3dpb.co.uk

