



The
Design to
Manufacturing Co.



MATERIAL **DRAFTGREY** OVERVIEW

For more information or advice:



theD2Mco.com/contact-us



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DraftGrey™ is a rigid material with medium opacity and smooth finish targeted for printing concept single material models at an affordable price.

	ASTM	Value
Tensile Strength	D-638-03	50 – 65 MPa (7,250 – 9,450 psi)
Elongation at Break	D-638-05	10 – 25%
Modulus of Elasticity	D-638-04	2,000 – 3,000 MPa (290,000 – 435,000 psi)
Flexural Strength	D-790-03	75 – 110 MPa (11,000 – 16,000 psi)
Flexural Modulus	D-790-04	2,200 – 3,200 MPa (320,000 – 465,000 psi)
HDT, °C @ 0.45 MPa	D-648-06	45 – 50 °C (113 – 122 °F)
HDT, °C @ 1.82 MPa	D-648-07	45 – 50 °C (113 – 122 °F)
Izod Notched Impact	D-256-06	20 – 30 J/m (0.375 – 0.562 ft-lb/inch)
Water Absorption	D-570-98 24hr	1.1 – 1.5%
Tg	D-7028 (DMA)	52 – 54 °C (126 – 129 °F)
Shore Hardness	Scale D	83 – 86 (Scale D)
Rockwell Hardness	Scale M	73 – 76 (Scale M)
Polymerized Density	Scale D-792	1.17 – 1.18 g/cm³
Ash Content	USP281	0.23 – 0.26%

System Availability

Printer	Minimum Layer Thickness	Support Structure	Available Colors
J826™ Prime / J835™	14 microns (0.00055 in.)	SUP705™ (water jet removable) SUP706B™ (soluble)	DraftGrey
J850™ Pro / J850 Prime	14 microns (0.00055 in.)	SUP705™ (water jet removable) SUP706B™ (soluble)	DraftGrey
J35™ Pro	18 microns (0.0007 in.)	SUP710™ (water jet removable)	DraftGrey
J55™ / J55 Prime	18 microns (0.0007 in.)	SUP710 (water jet removable)	DraftGrey
Objet30™ Pro/Prime¹	16 microns (0.0006 in.)	SUP705 (water jet removable) SUP706B (soluble)	DraftGrey

¹ Objet30 V3 and above using GrabCAD Print.

Find the Perfect Material for Your Application

From strength and flexibility to biocompatibility and color, our experts help you select materials that meet your part performance and production goals - every time.

TALK TO AN EXPERT

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100%
Tailored
Advice