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 \ סגולה 9 \ אפ"ק 10 תל אביב, 6811609 \ טרי.די.זה יצירות ע.מ 558307583 \

Grey ULTRA HD

Grey Resin with a matte, opaque finish that offers the highest surface detail of any material to date. No matter what you're printing, you want your final parts to be precise and beautiful. The value of aesthetically pleasing material is a given for artistic fields like modelmaking, and even for practical applications, detail matters. We've worked hard to develop materials that are not only highly functional enough for the most demanding applications, but also visually appealing.

It's a strong plastic material ideal for a wide variety of applications, this material can be easily painted, and when the surface is finished or coated, produces a highly-detailed part. Upon post-cure, tensile strength and stiffness exceeds that of injection-molded or 3D-printed ABS.

Material properties:

	METRIC ¹		IMPERIAL ¹		METHOD
	Green ²	Postcured ³	Green ²	Postcured ³	
Tensile Properties					
Tensile Strength at yield	38 MPa	65 MPa	5510 psi	9380 psi	ASTM D 638-10
Young's Modulus	1.6 GPa	2.8 GPa	234 ksi	402 ksi	ASTM D 638-10
Elongation at Failure	12%	6.2%	12%	6.2%	ASTM D 638-10
Flexural Properties					
Flexural Modulus	1.25 GPa	2.2 GPa	181 ksi	320 ksi	ASTM C 790-10
Impact Properties					
Notched IZOD	16 J/m	25 J/m	0.3 ft-lbf/in	0.46 ft-lbf/in	ASTM D 256-10
Temperature Properties					
Heat deflection temp. @ 264 psi	42.7 °C	58.4 °C	108.9 °F	137.1 °F	ASTM D 648-07
Heat deflection temp. @ 66 psi	49.7 °C	73.1 °C	121.5 °F	163.6 °F	ASTM D 648-07

NOTES:

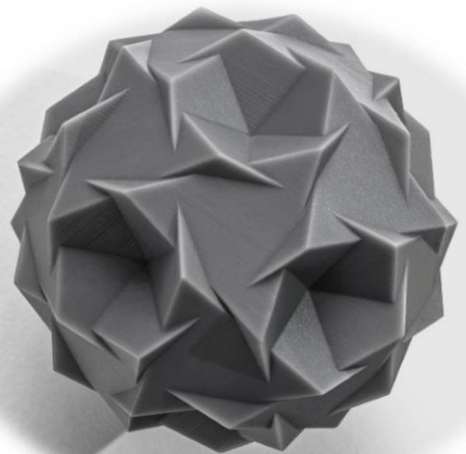
¹Material properties can vary with part geometry, print orientation, print settings and temperature.

²Data was obtained from green parts, printed on 100 µm, Clear settings, without additional treatments.



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SOLVENT COMPATIBILITY

G = Good resistance.

Parts exposed to this solvent should not experience a decrease in mechanical properties. ($\leq 1\%$ weight gain, $\leq 1\%$ width increase over 24 hours for a 1 x 1 x 1 cm cube)

A = Acceptable resistance.

Parts exposed to this solvent may experience a small decrease in mechanical properties.
(1 – 2% weight gain, 1 – 2% width increase over 24 hours for a 1 x 1 x 1 cm cube)

X = Unacceptable resistance.

Parts exposed to this solvent will experience a significant decrease in mechanical properties as well as visible degradation. ($> 2\%$ weight gain, $> 2\%$ width increase over 24 hours for a 1 x 1 x 1 cm cube)

Material	GREEN	POST CURED
Acetic Acid, 5%	G	G
Acetone	X	X
Bleach (~5% NaOCl)	G	G
Butyl Acetate	X	G
Diethyl glycol monomethyl ether	X	G
Hydrogen Peroxide (3%)	G	G
Isooctane	G	G
Isopropyl alcohol	X	G
Sodium hydroxide (0.025%, pH = ~10)	G	G
Salt Water (3.5% NaCl)	G	G
Water	G	G
Xylene	X	G