



GreenFire

POLYJET TECHNOLOGY MATERIAL SPECIFICATIONS

Highlights

- Higher HDT and elongation to break
- Opaque viridian green
- Excellent for fine features
- Fast PolyJet build process
- PolyJet Z Resolution: 30µm (0.00118")
- Also known as "Digital ABS (RDG5160-DM)"

Applications

- Functional prototypes
- Durable and accurate presentation models
- Prototype mold inserts
- Electronics enclosures
- Suitable for a wide range of industries

TYPICAL PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Color/Appearance	Visual	Green	Green
Density (as cured)	ASTM D792	0.042 – 0.043 lb/in ³	1.17 – 1.18 g/cm ³
Tensile Strength	ASTM D638	8,000 – 8,700 psi	55 – 60 MPa
Elongation at Break	ASTM D638	25% - 40%	25% - 40%
Modulus of Elasticity	ASTM D638	375,000 – 435,000 psi	2,600 – 3,000 MPa
Flexural Strength	ASTM D790	9,500 -11,000 psi	65 – 75 MPa
Flexural Modulus	ASTM D790	245,000 – 320,000 psi	1,700 – 2,200 MPa
Izod Notched Impact	ASTM D256	1.22 – 1.50 ft-lb/in	65 – 80 J/m
Shore D Hardness	-	86 D	86 D
Heat Deflection Temperature	ASTM D648 @ 264psi	124°F – 131°F	51°C – 55°C
	ASTM D648 @ 66psi	136°F – 154°F	58°C – 68°C

The information presented represents typical values intended for reference and comparison purposes only. It should not be used for design specifications or quality control purposes. End-use material performance can be impacted (+/-) by, but not limited to, part design, end-use conditions, test conditions, color etc. Actual values will vary with build conditions. Product specifications are subject to change without notice.

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