

# POLYJET MATERIAL SPECIFICATIONS

## POLYJET GREENFIRE

### HIGHLIGHTS

- Higher HDT and elongation to break
- Opaque viridian green
- Excellent for fine features
- Fast PolyJet build process
- PolyJet 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

Property	Test Method	English	Metric
Color/Appearance	Visual	Green	Green
Density (as cured)	ASTM D792	0.042 - 0.043 lb/in <sup>3</sup>	1.17 - 1.18 g/cm <sup>3</sup>
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
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 @ 264 psi	124°F - 131°F	51°C - 55°C
	ASTM D648 @ 66 psi	136°F - 154°F	58°C - 68°C

PolyJet Material Datasheet 2015-09

\*A minimum thickness of 1.52 mm (0.060") is required for PolyJet GreenFire material to achieve full physical properties.

