

High Impact Resins

Tough Materials for Final Parts Production

Unique high impact resistant 3D printing materials for durable, functional and production parts.

IDEAL FOR

- » Manufacturing aids
- » Housings and coverings
- » Jigs and fixtures
- » Insoles

PROPERTIES

- » Printable at room temperature
- » Excellent performance and durability vs. other resins in the market
- » Printable at high resolution
- » Outstanding surface finishing



3172 HDT50 High Impact

Tough & high impact material

Resin that functional parts production that require high stiffness with a good surface finish and high impact resistance. Attributes are similar to Polypropylene (PP).

Benefits:

- » Tough & durable
- » Superior impact strength
- » Nice surface finish, machine-able

PROPERTY ¹	METHOD	
Colour	–	Gray*, Clear
HDT at 0.455 MPa	ASTM D648	46°C
Tensile Stress at Break (MPa)	ASTM D638	44
Elongation at Break (%)	ASTM D638	124
Young's Modulus (MPa)	ASTM D638	1,315
IZOD Impact (Noched, J/m)	ASTM D256	57



3843 HDT60 High Toughness

High strength, semi-flexible resin

Semi-flexible resin with moderate temperature resistance HDT60, high impact strength, and versatility for a broad range of applications. Ideal for a wide variety of tooling applications on the production floor.

Benefits:

- » Moderate heat resistance, HDT 60° C
- » Tough with outstanding surface finish
- » Superior strength and impact resistant

PROPERTY ¹	METHOD	
Colour	–	Matte Black*, White, Clear
HDT at 0.455 MPa	ASTM D648	63°C
Tensile Stress at Break (MPa)	ASTM D638	51
Elongation at Break (%)	ASTM D638	43
Young's Modulus (MPa)	ASTM D638	1,806
IZOD Impact (Noched, J/m)	ASTM D256	53
Shore Hardness (D)	ASTM D2240	74

For further information please see TDS, contact Technical Service Centre or Customer Service Representative.
The physical properties provided in this document are typical results of printed parts and are provided for reference purposes only.
* Data shown reflects properties from resin highlighted with “*”, for additional information please refer to the respective TDS