SINTERING

DuraForm® PP 100 Plastic

Automotive recliner seat cover made from the tough and rugged DuraForm® PP 100 Plastic.

Applications

- Prototypes where toughness and durability are essential
- Advanced prototypes where actual polypropylene properties are required
- Direct or bridge manufacturing where molded polypropylene properties are desirable

Features

- Polypropylene material
- Tough and rugged
- Excellent chemical resistance
- Good fatigue life and impact resistance
- Optimized for Pro Manufacturing Centers

Benefits

- Test in realistic and challenging environments
- Properties comparable to molded polypropylene
- Properties are consistent and repeatable
- Create living hinges and self-tapping bosses
- Good feature resolution, detail and surface finish
- Build parts up to 900 mm long

Automotive vent grill.

DuraForm® PP100 Plastic can be used for self-tapping screws.

SINTERING

DuraForm® PP 100 Plastic

For use with all Sinterstation® Pro and Sinterstation® HiQ™ series SLS® Systems

DuraForm® PP100 Plastic is strong, flexible and soft to the touch.

DuraForm® PP 100 Plastic is available in parts from the online Parts Marketplace:

quote.3dsystems.com

DuraForm® PP 100 Plastic is also available via the following Preferred Parts Service Providers:

Acu-Cast Technologies
www.acucast.com

AdvaTech Mfg.
www.advatechmfg.com

American Precision Prototyping
www.approto.com

FineLine Prototyping
www.finelineprototyping.com

Harvest Technologies
www.harvest-tech.com

Scicon Technologies
www.scicontech.com

3D SYSTEMS Preferred Parts Service Provider

Technical Data

General Properties

Measurement	Condition	Metric	U.S.
Density (Sintered Part)	ASTM D792	0.82 - 0.86 g/cm³	0.82 - 0.86 g/cm³
Bulk Density (Powder)	ASTM D792	0.46 - 0.47 g/cm³	0.46 - 0.47 g/cm³
Tap Density (Powder)	ASTM D792	0.53 - 0.54 g/cm³	0.53 - 0.54 g/cm³

Mechanical Properties

Measurement	Condition	Metric	U.S.
Tensile Strength, Ultimate	ASTM D638	20-22 MPa	3.0 - 3.2 ksi
Tensile Strength, Yield	ASTM D638	19-21 MPa	2.8 - 3.1 ksi
Tensile Modulus	ASTM D638	980-1350 MPa	142 - 196 ksi
Elongation at Break	ASTM D638	20-75 %*	20-75 %
Flexural Strength	ASTM D790	30 - 33 MPa	4.4 - 4.8 ksi
Flexural Modulus	ASTM D790	900 - 1150 MPa	130 - 167 ksi
Hardness, Shore D	ASTM D2240	65-68	65-68

* Properties from parts built using 100% virgin powder

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