



AFP3600

URETHANE CASTING MATERIAL SPECIFICATIONS

Highlights

- Excellent flexibility for clips and snap features
- High impact resistance
- Excellent for tinted applications
- High reproduction accuracy
- Excellent heat resistance
- High transparency (clear to pale amber)

Applications

- Lenses (tinted and clear)
- Housings and cases
- Backlight applications
- Clear and frosted applications

TYPICAL PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Color/Appearance	Visual	Clear/Pale Amber	Clear/Pale Amber
Density	ASTM D792	0.0394 lb/in ³	1.09 gm/cc
Elongation at Break	ASTM D638	155%	155%
Flexural Modulus	ASTM D790	129,000 psi	889 MPa
Flexural Strength	ASTM D790	5,060 psi	35 MPa
Heat Deflection Temperature @ 66 psi	ASTM D648	190°F	88°C
Heat Deflection Temperature @ 264 psi	ASTM D648	145°F	63°C
Izod Impact Strength (method A, notched)	ASTM D256	1.23 ft-lb/in	65 J/m
Shore D Hardness	ASTM D2240	78 D	78 D
Tensile Modulus	ASTM D638	127,000 psi	875 MPa
Tensile Strength	ASTM D638	4,230 psi	29 MPa

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.

The performance characteristics of these materials may vary according to application, operating conditions, or end use. Each user is responsible for determining that the material is safe, lawful, and technically suitable for the intended application. Stratasys makes no warranties of any kind, express or implied, including, but not limited to, the warranties of merchantability, fitness for a particular use, or warranty against patent infringement.