

QUANTUMCAST MATERIAL SPECIFICATIONS

AFP3600

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

Property	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 material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change with out notice.