

GP1300

Technical Data Sheet

High Flow Crystal Injection Molding

Applications

- Housewares
- Disposable Cutlery
- Containers & Vials
- Medical/Pharmaceutical

Properties

- Ease of Processing
- Excellent Mold Release
- Excellent Clarity with Blue Tint
- Good Toughness

PROPERTIES	VALUE	METHOD
Melt Flow (gm/10 min)	13.0	ASTM D1238
Specific Gravity (gm/cc)	1.03	ASTM D792
Tensile Strength ⁽¹⁾ , 2 in/min (psi)	6700	ASTM D638
Tensile Modulus ⁽¹⁾ , 2 in/min (psi)	450000	ASTM D638
Tensile Elongation ⁽¹⁾ , 2 in/min (%)	3.0	ASTM D638
Flexural Strength ⁽²⁾ , 0.1 in/min (psi)	8500	ASTM D790B
Flexural Modulus ⁽²⁾ , 0.1 in/min (psi)	450000	ASTM D790B
Notched Izod at 73°F ⁽¹⁾ , (ft-lb/in)	0.35	ASTM D256
Vicat Softening Temp. ⁽²⁾	209	ASTM D1525
Deflection Temp. Under Load ⁽²⁾⁽³⁾ (F°)	190	ASTM D648
Mold Shrinkage, 24 hours (in / in)	0.004-0.008	ASTM D955

FDA

This material complies with FDA regulations in 21 CFR, section 177.1640.

Reference Notes

- (1) Thickness of sample tested, 0.125 inch.
- (2) Thickness of sample tested, 0.250 inch.
- (3) Testing condition is at 264 psi.

Processing

Recommended mold surface temperatures for polystyrene range from 60° to 150° F. Use the highest temperature possible where you can maintain the desired cycle time. Please contact your Trademark representative for further details.

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