

## GP1800

*Technical Data Sheet*

## High Flow Crystal Injection Molding

### Applications

- Color Concentrate Carrier
- Disposable Cutlery
- Containers & Vials
- Drink Cups

### Properties

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

PROPERTIES	VALUE	METHOD
Melt Flow (gm/10 min)	18.0	ASTM D1238
Specific Gravity (gm/cc)	1.03	ASTM D792
Tensile Strength <sup>(1)</sup> , 2 in/min (psi)	6550	ASTM D638
Tensile Modulus <sup>(1)</sup> , 2 in/min (psi)	455000	ASTM D638
Tensile Elongation <sup>(1)</sup> , 2 in/min (%)	3.0	ASTM D638
Flexural Strength <sup>(2)</sup> , 0.1 in/min (psi)	8300	ASTM D790B
Flexural Modulus <sup>(2)</sup> , 0.1 in/min (psi)	455000	ASTM D790B
Notched Izod at 73°F <sup>(1)</sup> , (ft-lb/in)	0.35	ASTM D256
Vicat Softening Temp. <sup>(2)</sup>	205	ASTM D1525
Deflection Temp. Under Load <sup>(2)(3)</sup> (F°)	176	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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