# 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(1) , 2 in/min (psi) | 6550 | ASTM D638 |
| Tensile Modulus(1) , 2 in/min (psi) | 455000 | ASTM D638 |
| Tensile Elongation(1) , 2 in/min (%) | 3.0 | ASTM D638 |
| Flexural Strength(2) , 0.1 in/min (psi) | 8300 | ASTM D790B |
| Flexural Modulus(2) , 0.1 in/min (psi) | 455000 | ASTM D790B |
| Notched Izod at 73°F(1) , (ft-lb/in) | 0.35 | ASTM D256 |
| Vicat Softening Temp.(2) | 205 | ASTM D1525 |
| Deflection Temp. Under Load(2)(3) (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.