

## VINPOL™ PS230

### General Purpose Polystyrene

Melt Flow: 22.5

Water Clear  
or Blue Tint

**VINPOL PS230** is a zinc-free, high melt flow, general purpose polystyrene particularly suitable for use in molding, compounding, and extrusion processes. Products made using this resin exhibit excellent clarity and gloss. This product meets all requirements of the U. S. Food and Drug Administration as specified in 21 CFR 177.1640.

| Resin Property                        | Typical Value   | Units             | Test Method |
|---------------------------------------|-----------------|-------------------|-------------|
| Melt Flow Rate, (200 °C/5.0kg)        | 22.5            | g/10 min          | ASTM D-1238 |
| Specific Gravity                      | 1.05            | g/cm <sup>3</sup> | ASTM D-792  |
| Tensile Strength at Yield             | 6,000 (41)      | psi (MPa)         | ASTM D-638  |
| Tensile Modulus                       | 435,000 (3,000) | psi (MPa)         | ASTM D-638  |
| Ultimate Elongation                   | <2.0            | %                 | ASTM D-638  |
| Flexural Strength                     | 8,000 (55)      | psi (MPa)         | ASTM D-638  |
| Flexural Modulus                      | 445,000 (3,070) | psi (MPa)         | ASTM D-638  |
| Hardness, Rockwell M                  | 75.0            |                   | ASTM D-795  |
| Izod Impact, 1/8" bar at 23°C (73°F)  | <0.3            | ft-lb/in          | ASTM D-265  |
| Vicat Softening Temperature           | 102 (216)       | °C (°F)           | ASTM D-1525 |
| Heat Deflection Temperature at 66 psi | 89 (192)        | °C (°F)           | ASTM D-648  |
| Mold Shrinkage                        | 0.003-0.006     | in/in             | ASTM D-955  |

\*These properties represent values on specimens prepared and performed according to ASTM testing conditions. They are intended as guidelines only.

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.