

## PS820

Technical Data Sheet

## High Impact Injection Molding

### Applications

- Household Items
- Displays
- Retail Shelving
- Part Requiring High Flow

### Properties

- Excellent Toughness
- Low/Medium Gloss
- Good Flow Characteristics
- Good Rigidity

### PROPERTIES

### VALUE

### METHOD

PROPERTIES	VALUE	METHOD
Melt Flow (gm/10 min)	8.0	ASTM D1238
Specific Gravity	1.03	ASTM D792
Tensile Strength <sup>(1)</sup> , 2 in/min (psi)	3250	ASTM D638
Tensile Modulus <sup>(1)</sup> , 2 in/min (psi)	290000	ASTM D638
Tensile Elongation <sup>(1)</sup> , 2 in/min (%)	44	ASTM D638
Flexural Strength <sup>(2)</sup> , 0.1 in/min (psi)	5900	ASTM D790B
Flexural Modulus <sup>(2)</sup> , 0.1 in/min (psi)	283000	ASTM D790B
Notched Izod at 73°F <sup>(1)</sup> , (ft-lb/in)	2.1	ASTM D256
Vict Softening Temp. <sup>(2)</sup>	201	ASTM D1525
Deflection Temp. Under Load <sup>(2)(3)</sup> (F°)	171	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.

### Notes

- (1) Thickness of samples tested, 0.125 inch.
- (2) Thickness of samples 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.

