TRADEMARK POLYSTYRENE

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 Charactaristics
- Good Rigidity

Properties	*Value*	*Method*
Melt Flow (gm/10 min)	8.0	ASTM D1238
Specific Gravity (gm/cc)	1.03	ASTM D792
Tensile Strength(1), 2 in/min (psi)	3250	ASTM D638
Tensile Modulus(1), 2 in/min (psi)	290000	ASTM D638
Tensile Elongation(1), 2 in/min (%)	44	ASTM D638
Flexural Strength(2), 0.1 in/min (psi)	5900	ASTM D790B
Flexural Modulus(2), 0.1 in/min (psi)	283500	ASTM D790B
Notched Izod at 73°F (1), (ft-lb/in)	2.1	ASTM D256
Vicat Softening Temp.(2)	201	ASTM D1525
Deflection Temp. Under Load(2)(3) (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.

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.