



## TECHNICAL DATA SHEET (TDS)

# HIPS PS8HI HIGH IMPACT POLYSTYRENE

### OVERVIEW:

Maximum impact.

Applications: injection molding of appliance housings, housewares and toys, structural foam, refrigeration applications.

Complies with U.S. FDA 21 CFR 177.1640

### ADDITIVE:

Properties	Test Method	Units	Nominal Values
Melt Flow (200°C-5 kg)	ASTM D-1238	g/10min	8.0
Density		g/cm <sup>3</sup>	1.04
<b>Properties</b>			
Falling Dart	ASTM D-3029	in-lb.	110
Izod - notched	ASTM D-256	ft.-lbs.-in	2.0
Tensile strength	ASTM D-638	Psi	3600
Tensile Modulus	ASTM D-638	Psi(10 <sup>5</sup> )	3.3
Elongation	ASTM D-638	%	45
Flexural Strength	ASTM D-790	Psi	6500
Flexural Modulus	ASTM D-790	Psi(10 <sup>5</sup> )	3.4
Heat Distortion-Annealed	ASTM D-648	°F	193
Vicat Softening	ASTM D-1525	°F	205.0
Gloss	ASTM D-523	60°	90
Linear Shrinkage	ASTM D-955	in/in	.004-.007
Moisture	ASTM D-955	%	<0.1

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