



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 ³	1.04
Properties			
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 ⁵)	3.3
Elongation	ASTM D-638	%	45
Flexural Strength	ASTM D-790	Psi	6500
Flexural Modulus	ASTM D-790	Psi(10 ⁵)	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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