

Technical Datasheet

FEATURES

- Low residual styrene monomer content
- High melt strength and stiffness
- UL Classification 94 HB for 1290 (www.UL.comfile E57787)

APPLICATIONS

- Biaxially oriented sheet (OPS)
- Extrusion/thermoforming foam sheet
- Food service and food packaging containers
- Application that require hight clarity and not taste or odor transfer

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	1.6
Mechanical Properties			
Izod Notched Impact Strength, 23°C (73°F)	ASTM D 256	ft-lb/in	0.4
Tensile Modulus	ASTM D 638	psi x 103	460
Elongation, Failure	ASTM D 638	%	3
Flexural Strength	ASTM D 790	psi	15500
Flexural Modulus	ASTM D 790	psi x 103	480
Hardness, Rockwell	ASTM D 785	M scale	78
Thermal Properties			
Vicat Softening Temperature, B/1 (120°C/h, 10N)	ASTM D 1525	°F	228
Coefficient of Linear Thermal Expansion	ASTM D 696	10-4/°F	0,4
Electrical Properties			
Dielectric Constant at 106 CPS (1000000 Hz, 0,0394 in)	ASTM D 150	-	2.5
Dielectric Strength, 1/8"	ASTM D 149	kV/in	500
Optical Properties			
Refractive Index, Sodium D Line	ASTM D 542	-	1.59
Light Transmission at 550 nm	ASTM D 1003	%	88 - 90
Other Properties			
Density	ASTM D 792	-	1.04
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 to 0.007

Styrolution PS 1290/1291

General Purpose Polystyrene (GPPS)



Typical values for uncolored products

SUPPLY FORM

Styrolution PS 1290 can be supplied in two versions, with (grade name ending in 1) or without an external lubricant (grade name ending in 0) for improving pneumatic conveying. Styrolution PS resins are available in bulk railcar and bulk truckload quantities.

FOOD CONTACT COMPLIANCE STATEMENT

United States - Complies with the specifications contained in U.S.A. Food and Drug Administration (FDA) regulation 21 CFR 177.1640 for polystyrene and rubber modified polystyrene, and thus may be used in the United States as an article or a component of an article intended for use in contact with food, subject to any limitations described in the regulations. Canada - Please contact Styrolution for information on the use of this resin in the packaging of specific foodstuffs in Canada.

PRODUCT SAFETY

Styrolution PS resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of Styrolution PS resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact Styrolution Technical Service for further information on recycling and disposal of Styrolution resins.

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