

# Styrolution PS 2610

General Purpose Polystyrene (GPPS)

## TECHNICAL DATASHEET

### FEATURES

- Excellent toughness
- High melt strength
- Good flow and processability

### APPLICATIONS

- Well suited for blending with HIPS
- Extruded packaging
- Thermoforming applications
- Appliance accessory parts

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	3.6
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	0.4
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	6000
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	460
Elongation, Failure	ASTM D 638	%	2
Flexural Strength, 23 °C	ASTM D 790	psi	12000
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	480
Hardness, Rockwell	ASTM D 785	M scale	75
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/1 ( 120 °C/h, 10N)	ASTM D 1525	°F	208
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)		°F	193
Coefficient of Linear Thermal Expansion	ASTM D 696	10 <sup>-4</sup> /°F	0.4
<b>Electrical Properties</b>			
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
<b>Optical Properties</b>			
Refractive Index, Sodium D Line	ASTM D 542	-	1.59
Light Transmission at 550 nm	ASTM D 1003	%	88 - 90
Optical Density, 400–700 nm avg.		-	0.046

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<b>Other Properties</b>			
Density	ASTM D 792	-	1.04
Bulk Density (without external lubricant)		lb/ft <sup>3</sup>	37 - 40
<b>Processing</b>			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 to 0.007
Melt Temperature Range		°F	375 - 525
Mold Temperature Range		°F	100 - 180

Typical values for uncolored products

### SUPPLY FORM

Styrolution PS resins are available in bulk railcar and bulk truckload quantities.

### 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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