

Product Description

- 3600 – Clear cylindrical pellets
- 3601 – Clear cylindrical pellets with external lubricant

Features

- Exceptional flow characteristics
- Good for thin wall and complex parts
- USP Class VI

Applications

- Single service cutlery and drinkware
- Medical disposables
- Masterbatch compounding

Properties ⁽¹⁾	Units	S.I.	English	ASTM
		Typical Values ⁽²⁾	Typical Values ⁽²⁾	
Melt Flow Rate, 200/5.0	g/10 min	14	g/10 min	D 1238
Impact Strength, Notched Izod, 1/8" bar, 0.010" Notch Radius	J/m	20	ft-lb/in	D 256
Tensile Strength, Yield	MPa	43	psi	D 638
Tensile Modulus	MPa	3,172	psi x 10 ³	D 638
Elongation, Failure	%	2	%	D 638
Flexural Strength	MPa	77	psi	D 790
Flexural Modulus	MPa	3,310	psi x 10 ³	D 790
Vicat Softening Temp.	°C	98	°F	D 1525
Heat Deflection Temp., 1.8 MPa/264 psi (annealed)	°C	78	°F	D 648
Linear Mold Shrinkage	mm/mm	0.004 – 0.007	in/in	D 955
Coefficient of Linear Thermal Expansion	cm/cm-°C	8 x 10 ⁻⁵	in/in-°F	D 696
Hardness, Rockwell	M Scale	74	M Scale	D 785
Dielectric Constant at 10 ⁶ CPS	-	2.5	-	D 150
Dielectric Strength, 1/8"	MV/m	19.7	kV/in	D 149
Refractive Index, sodium D line	-	1.59	-	D 542
Light Transmission at 550 nm	%	88 – 90	%	D 1003
Optical Density, 400–700 nm avg.	-	0.046	-	
Specific Gravity	-	1.04	-	D 792
Bulk Density				
Lubed	kg/m ³	620 – 670	lb/ft ³	39 – 42
Unlubed		590 – 640		37 – 40

(1) Properties were determined on injection molded specimens at 23°C (73°F) and 50% R.H. unless otherwise specified

(2) Typical Values represent average laboratory values and are intended as guides only, not as specific specification limits.

TEST METHODS

The product properties designated in this standard have been determined in accordance with the current issues of the specified testing methods. Methods of the American Society for Testing and Materials (ASTM) are used wherever applicable.

AVAILABILITY

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

PROCESSING

Recommended Melt Temp.	360°F – 530°F 180°C – 280°C
Recommended Mold Temp.	100°F – 180°F 38°C – 82°C

In addition, exposure to gamma radiation in the 2.02-6.06 megarad range has no significant effect on the physical and optical properties of the material.

FOOD PACKAGING STATUS

Canada: Please contact Styrolution for information on the use of this resin in the packaging of specific foodstuffs in Canada.

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.

ENVIRONMENTAL

Styrolution polystyrene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of Styrolution polystyrene 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.



PS is the SPI resin code developed for polystyrene to identify material type for sorting and recycling purposes.



Each of Styrolution polystyrene manufacturing facilities has achieved ISO 9001 certification, providing further assurance of our quality products, services, and solutions.

CONTACTS

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