

Styrolution PS 1621

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 1621 is a General Purpose Polystyrene product. It can be processed by coextrusion or injection molding and is available in Latin America or North America. Typical application: Medical/Healthcare.
Characteristics include:
Flame Rated
Clarity
Fast Molding Cycle
Good Processability
Heat Resistant

General Information	
UL YellowCard	E57787-101987587
Features	Fast Molding Cycle
	General Purpose
	Good Flow
	Good Moldability
	Good Strength
	High Clarity
	Medium Heat Resistance
Uses	Medical/Healthcare Applications
UL File Number	E57787
Forms	Pellets
Processing Method	Coextrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density ¹	0.62 to 0.67	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	46.9	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	93.3	°C	
Vicat Softening Temperature	106	°C	ASTM D1525 ²
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.18 mm)	20	kV/mm	ASTM D149
Dielectric Constant (1.00 mm, 1 MHz)	2.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index ³	1.590		ASTM D542
Transmittance (550 nm)	88.0 to 90.0	%	ASTM D1003
Optical Density - 400-700 nm avg.	0.0460		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	191 to 274	°C	
Mold Temperature	37.8 to 82.2	°C	
NOTE			
1.	with external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Sodium D line		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT