

Styrolution PS 1300/1301

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 1300/1301 is a General Purpose Polystyrene product. It can be processed by profile extrusion and is available in Latin America or North America. Applications of Styrolution PS 1300/1301 include medical/healthcare, appliances, consumer goods and food contact applications. Characteristics include:
Flame Rated
Food Contact Acceptable
High Stiffness

General Information			
UL YellowCard	E57787-100082694	E57787-627865	E57787-627866
Features	Food Contact Acceptable		
	General Purpose		
	Good Flow		
	Good Strength		
	High Stiffness		
Uses	Appliance Components		
	Cosmetics		
	Labware		
	Medical/Healthcare Applications		
	Profiles		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E57787		
Forms	Pellets		
Processing Method	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density			
-- ¹	0.59 to 0.64	g/cm ³	
-- ²	0.62 to 0.67	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	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)	76		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638

Tensile Strength (Yield, 23°C)	49.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	100	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 ³
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 ⁴	1.590		ASTM D542
Transmittance (550 nm)	88.0 to 90.0	%	ASTM D1003
Optical Density - 400-700 nm avg.	0.0460		
Extrusion	Nominal Value	Unit	
Melt Temperature	182 to 277	°C	
NOTE			
1.	without external lubricant		
2.	with external lubricant		
3.	Rate B (120°C/h), Loading 1 (10 N)		
4.	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