

Styrolution PS 2600/2601

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 2600/2601 is a General Purpose Polystyrene product. It can be processed by foam extrusion or thermoforming and is available in Latin America or North America. Applications of Styrolution PS 2600/2601 include containers, decorative parts, foam, food contact applications and kitchenware.

Characteristics include:

- Flame Rated
- Low to No Odor/Taste
- Clarity
- Good Processability
- Heat Resistant

General Information			
UL YellowCard	E57787-246273	E57787-246272	
Features	General Purpose		
	Good Processability		
	Good Strength		
	High Clarity		
	Low Odor Transfer		
	Low Taste Transfer		
	Medium Heat Resistance		
Uses	Displays		
	Disposable Drinkware		
	Foam		
	Food Containers		
	Food Packaging		
	Food Service Applications		
Agency Ratings	USP Class VI		
UL File Number	E57787		
Forms	Pellets		
Processing Method	Foam Extrusion		
	Thermoforming		
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)	3.4	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)	44.1	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	82.7	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)	90.6	°C	
Vicat Softening Temperature	96.1	°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	191 to 274	°C	
NOTE			
1.	without external lubricant		
2.	with external lubricant		
3.	Rate B (120°C/h), Loading 1 (10 N)		
4.	Sodium D line		

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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



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