

Styrolution PS 3600/3601

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 3600/3601 is a General Purpose Polystyrene product. It can be processed by compounding or injection molding and is available in Latin America or North America. Applications of Styrolution PS 3600/3601 include additive/masterbatch, medical/healthcare, engineering/industrial parts and kitchenware.

General Information	
Features	General Purpose
	Good Flow
Uses	Compounding
	Disposable Tableware
	Masterbatch
	Medical/Healthcare Applications
	Thin-walled Parts
Agency Ratings	USP Class VI
Forms	Pellets
Processing Method	Compounding
	Injection Molding

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)	14	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)	74		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	42.7	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	76.5	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)	78.3	°C	
Vicat Softening Temperature	98.3	°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
Optical	Nominal Value		Test Method
Refractive Index ⁴	1.590		ASTM D542
Optical Density - 400-700 nm avg.	0.0460		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	182 to 277	°C	
Mold Temperature	37.8 to 82.2	°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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