

Styrolution PS 1600

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 1600 is a General Purpose Polystyrene product. It can be processed by foam extrusion or injection molding and is available in Latin America or North America. Typical application: Medical/Healthcare. Primary characteristic: heat resistant.

General Information	
Features	General Purpose
	Good Flow
	Good Strength
	Medium Heat Resistance
Uses	Medical/Healthcare Applications
Forms	Pellets
Processing Method	Foam Extrusion
	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	
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	2960	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

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	
Extrusion	Nominal Value	Unit	
Melt Temperature	191 to 274	°C	
NOTE			
1.	without external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Sodium D line		

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