

Styrolution PS 1900

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 1900 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. Applications of Styrolution PS 1900 include additive/masterbatch and foam.

Characteristics include:

- Heat Resistant
- High Flow

General Information	
Features	General Purpose
	High Flow
	High Heat Resistance
Uses	Foam
	Masterbatch
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)	23	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	2960	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	96.1	°C	
Vicat Softening Temperature	105	°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	
NOTE			
1.	without external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Sodium D line		

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