

Styrolution PS 1700

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

- FEATURES
- High Flow
 - High Heat resistance
 - Free of zinc and oil additives
- APPLICATIONS
- Foam extrusion
 - Co-extruded gloss cap
 - Injection molding

General Information			
Features	High liquidity		
	Heat resistance, high		
	General		
Forms	Particle		
Processing Method	Foam extrusion molding		
	Co-extrusion molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density			
-- ¹	0.67 - 0.72	g/cm ³	
-- ²	0.59 - 0.64	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 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)	39.3	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	75.8	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 ³ (1.8 MPa, Annealed)	96.1	°C	

Vicat Softening Temperature	106	°C	ASTM D1525 ⁴
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 ⁵	1.590		ASTM D542
Transmittance (550 nm)	88.0 - 90.0	%	ASTM D1003
Optical Density - 400-700 nm avg.	0.0460		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	182 - 274	°C	
Mold Temperature	38 - 82	°C	
NOTE			
1.	with external lubricant		
2.	without external lubricant		
3.	4h/80°C		
4.	标准 B (120°C/h), 压力1 (10N)		
5.	Sodium D line		

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