

Styrolution PS 6200/6201

High Impact Polystyrene

INEOS Styrolution Group GmbH

Message:

Styrolution PS 6200/6201 is a High Impact Polystyrene product. It can be processed by extrusion, injection molding, or thermoforming and is available in Latin America or North America. Applications of Styrolution PS 6200/6201 include containers, decorative parts, food contact applications, kitchenware and medical/healthcare.

Characteristics include:

Good Toughness

Impact Resistant

General Information

Features	Good Toughness High Impact Resistance
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Uses	Containers Cups Displays Food Packaging Food Service Applications
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Agency Ratings	USP Class VI
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Forms	Pellets
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Processing Method	Extrusion Injection Molding Thermoforming
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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)	3.1	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	24.1	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	49.6	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	83.9	°C	
Vicat Softening Temperature	100	°C	ASTM D1525 ³
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.18 mm)	16	kV/mm	ASTM D149
Dielectric Constant (1.00 mm, 1 MHz)	2.50		ASTM D150
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	60		ASTM D523
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)

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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

