

Styrolution PS 6230/6231

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

High Impact polystyrene 6230/6231 is a tough, high gloss product.

FEATURES

- Single use foodservice
- High gloss
- Designed for deep draw thermoforming
- USP Class VI compliant
- UL Classification 64HB

APPLICATIONS

- Single use foodservice
- Profile extrusion
- Thin wall thermoformed containers
- Portion containers
- Medical and pharmaceutical packaging

General Information			
Features	Highlight		
	Impact resistance, high		
	Good toughness		
Uses	Thin wall container		
	Container		
	Food service sector		
	Profile		
	Drug packaging		
	Medical packaging		
Agency Ratings	USP Class VI		
Forms	Particle		
Processing Method	Thermoforming		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density			
-- ¹	0.59 - 0.64	g/cm ³	
-- ²	0.67 - 0.72	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (L-Scale)	57		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	25.9	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	45.9	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 ³ (1.8 MPa, Annealed)	90.0	°C	
Vicat Softening Temperature	98.9	°C	ASTM D1525 ⁴
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	85		ASTM D523
Injection	Nominal Value	Unit	
Processing (Melt) Temp	182 - 274	°C	
Mold Temperature	38 - 82	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 274	°C	
NOTE			
1.	without external lubricant		
2.	with external lubricant		
3.	4h/80°C		
4.	标准 B (120°C/h), 压 力1 (10N)		

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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



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