

Styrolution PS 6220

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 6220 is a High Impact Polystyrene product. It can be processed by injection molding, profile extrusion, or thermoforming and is available in Latin America or North America. Applications of Styrolution PS 6220 include medical/healthcare, containers and food contact applications.

Characteristics include:

- Flame Rated
- Good Toughness
- High Gloss
- Impact Resistant

General Information	
Features	Good Toughness High Gloss High Impact Resistance
Uses	Containers Food Service Applications Medical Packaging Pharmaceutical Packaging Profiles Thin-walled Containers
Agency Ratings	USP Class VI
Forms	Pellets
Processing Method	Injection Molding Profile Extrusion Thermoforming

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)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	23.8	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	45.5	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
Vicat Softening Temperature	98.9	°C	ASTM D1525 ²
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°)	90		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.	Rate B (120°C/h), Loading 1 (10 N)		

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