

Trademark PS PS820

High Impact Polystyrene
Trademark Plastics Corporation

Message:

- Applications:
- Household Items
 - Displays
 - Retail Shelving
 - Part Requiring High Flow
- Properties:
- Excellent Toughness
 - Low/Medium Gloss
 - Good Flow Characteristics
 - Good Rigidity

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	Good Toughness		
	High Impact Resistance		
	Medium Gloss		
	Medium Rigidity		
Uses	Displays		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1640		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow ¹	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ² (3.18 mm)	2000	MPa	ASTM D638
Tensile Strength ³ (3.18 mm)	22.4	MPa	ASTM D638
Tensile Elongation ⁴ (Break, 3.18 mm)	44	%	ASTM D638
Flexural Modulus ⁵ (6.35 mm)	1950	MPa	ASTM D790
Flexural Strength ⁶ (6.35 mm)	40.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁷ (1.8 MPa, Unannealed, 6.35 mm)	77.2	°C	ASTM D648

Vicat Softening Temperature	93.9	°C	ASTM D1525
Injection	Nominal Value	Unit	
Mold Temperature	15.6 to 65.6	°C	
NOTE			
1.	24 hours		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		
5.	2.5 mm/min		
6.	2.5 mm/min		
7.	(F0)		

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