Styrolution PS 5801

High Impact Polystyrene

INEOS Styrolution Group GmbH

Message:

Styrolution PS 5801 is a High Impact Polystyrene product. It can be processed by injection molding and is available in Latin America or North America. Applications of Styrolution PS 5801 include additive/masterbatch, engineering/industrial parts, household applications and medical/healthcare. Characteristics include:
Flame Rated
Good Processability
Good Toughness
Impact Resistant

General Information			
Features	Good Processability Good Toughness High Impact Resistance		
Uses	Household Goods Masterbatch Thin-walled Parts		
Agency Ratings	USP Class VI		
UL File Number	E57787		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792
Apparent Density [1]	0.62 to 0.67	g/cm³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	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)	55		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	21.4	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength	37.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	160	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (1.8 MPa, Annealed)	78.9	°C	
Vicat Softening Temperature	92.8	°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°)	55		ASTM D523
Injection	Nominal Value	Unit	
Processing (Melt) Temp	182 to 277	°C	
Mold Temperature	37.8 to 82.2	°C	
NOTE			
1.	with external lubricant		
2.	Rate B (120°C/h), Loading 1 (10 N)		

Recommended distributors for this material

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