Styrolution PS 5300

High Impact Polystyrene

INEOS Styrolution Group GmbH

Message:

Styrolution PS 5300 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 5300 include decorative parts and packaging.
Characteristics include:
Flame Rated
Good Toughness
High ESCR (Stress Crack Resistant)
Impact Resistant

General Information			
Features	Good Toughness High ESCR (Stress Crack Resist.) High Impact Resistance		
Uses	Decorative Parts Displays Food Packaging		
UL File Number	E57887		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792
Apparent Density [1]	0.59 to 0.64	g/cm³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.6	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)	45		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1790	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	17.7	MPa	ASTM D638
Tensile Elongation (Break)	53	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	41.4	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	85.0	°C	

Vicat Softening Temperature	101	°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°)	15		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)		

Recommended distributors for this material

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