

Starex VE-1801

High Impact Polystyrene
SAMSUNG SDI CO., LTD.

Message:

Starex VE-1801 is a High Impact Polystyrene product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.29 to 0.35	%	
Across Flow : 3.20 mm	0.31 to 0.38	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1800	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	23.0	MPa	ASTM D638
Yield	22.0	MPa	ISO 527-2/50
Break ³	26.0	MPa	ASTM D638
Break	23.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	33	%	ASTM D638
Break	37	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1800	MPa	ASTM D790
-- ⁶	1800	MPa	ISO 178
Flexural Strength			
-- ⁷	29.0	MPa	ASTM D790
-- ⁸	32.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	98	J/m	
23°C, 6.35 mm	88	J/m	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	81.0	°C	ISO 75-2/B
0.45 MPa, Annealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	71.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	71.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	80.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	84.0	°C	ISO 306/B50
--	87.0	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating (2.00 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	190 to 200	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	210 to 220	°C	
Nozzle Temperature	220	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 245	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	20 mm/min		
2.	20 mm/min		
3.	20 mm/min		
4.	20 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4 mm		

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