Starex VE-1805

High Impact Polystyrene

SAMSUNG SDI CO., LTD.

Message:

Starex VE-1805 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	1.14	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow : 3.20 mm	0.20 to 0.60	%	ASTM D955, ISO 2577
Across Flow : 3.20 mm	0.20 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
Yield [1]	23.0	MPa	ASTM D638
Yield	22.0	MPa	ISO 527-2/50
Flexural Modulus			
-- [2]	1800	MPa	ASTM D790
-- [3]	1800	MPa	ISO 178
Flexural Strength			
-- [4]	29.0	MPa	ASTM D790
-- [5]	32.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [6] (23°C)	10	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C [7]	10	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	71.0	°C	ASTM D648
Vicat Softening Temperature	85.0	°C	ISO 306/B50
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.50 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.	2.8 mm/min
3.	2.0 mm/min
4.	2.8 mm/min
5.	2.0 mm/min
6.	Thickness: 4 mm
7.	Thickness: 4 mm

Recommended distributors for this material

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