

Starex VS-0800

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex VS-0800 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard		E115797-614332	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.36 to 0.44	%	
Across Flow : 3.20 mm	0.37 to 0.45	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2/50
Break ³	29.0	MPa	ASTM D638
Break	33.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	20	%	ASTM D638
Break	11	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2200	MPa	ASTM D790
-- ⁶	2200	MPa	ISO 178
Flexural Strength			
-- ⁷	62.0	MPa	ASTM D790
-- ⁸	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	180	J/m	ASTM D256
23°C ⁹	23	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength ¹⁰ (23°C)	24	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	87.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	80.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	93.0	°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	160 to 180	°C	
Middle Temperature	190 to 200	°C	
Front Temperature	210 to 220	°C	
Nozzle Temperature	220	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 147	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 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		
10.	4 mm		

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