

Starex WR-9120

Acrylonitrile Styrene Acrylate
SAMSUNG SDI CO., LTD.

Message:

Starex WR-9120 is an Acrylonitrile Styrene Acrylate (ASA) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-219510	E115797-101391761	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	17	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.40 to 0.49	%	
Across Flow : 3.20 mm	0.42 to 0.52	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	47.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/50
Break ³	39.0	MPa	ASTM D638
Break	34.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	50	%	ASTM D638
Break	18	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2200	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	67.0	MPa	ASTM D790
-- ⁸	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C ¹⁰	11	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	90.0	°C	ISO 75-2/B
0.45 MPa, Annealed	99.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	83.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	72.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	98.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Yellowness Index (3.20 mm)	26.0		ASTM D1925
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0 to 90.0	°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	180 to 190	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	220 to 230	°C	
Nozzle Temperature	240	°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.	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.	Thickness: 4 mm		

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