

Starex WR-9100SG

Acrylonitrile Styrene Acrylate

SAMSUNG SDI CO., LTD.

Message:

ABS material that is used for solid vinyl door, frame etc.

General Information			
UL YellowCard	E115797-548129		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.06	g/cm ³	ASTM D792
--	1.08	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	13	g/10 min	ASTM D1238
220°C/10.0 kg	12	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	106		ASTM D785
R-Scale	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	46.0	MPa	ASTM D638
Yield	49.0	MPa	ISO 527-2/50
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus			
-- ³	2000	MPa	ASTM D790
-- ⁴	2400	MPa	ISO 178
Flexural Strength			
-- ⁵	65.0	MPa	ASTM D790
-- ⁶	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C ⁷	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	86.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	78.9	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°C	ISO 306/B50
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.	2.8 mm/min	
4.	2.0 mm/min	
5.	2.8 mm/min	
6.	2.0 mm/min	
7.	Thickness: 4 mm	

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Recommended distributors for this material

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