

Starex QU-0191 S

Acrylonitrile Butadiene Styrene
SAMSUNG SDI CO., LTD.

Message:
Extrusion ABS for refrigerator interior with the characteristic of crack resistance

General Information			
UL YellowCard	E115797-516067		
Features	Good Crack Resistance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.3	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	109		ASTM D785
R-Scale	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	48.0	MPa	ASTM D638
Yield	39.0	MPa	ISO 527-2/50
Break	40.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	80	%	ASTM D638
Break	14	%	ISO 527-2/50
Flexural Modulus			
-- ³	2200	MPa	ASTM D790
-- ⁴	2500	MPa	ISO 178
Flexural Strength			
-- ⁵	69.0	MPa	ASTM D790
-- ⁶	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	26	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	270	J/m	ASTM D256
23°C, 6.35 mm	240	J/m	ASTM D256
23°C ⁸	26	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	94.0	°C	ISO 75-2/B
0.45 MPa, Annealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	91.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	81.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	100	°C	ISO 75-2/A
Vicat Softening Temperature	102	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		
3.00 mm	HB		
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	230	°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.	2.8 mm/min		
4.	2.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	Thickness: 4 mm		
8.	Thickness: 4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

