

Starex GR-4017

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex GR-4017 is an Acrylonitrile Butadiene Styrene (ABS) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
UL YellowCard	E115797-101744860		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	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 - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Ash Content	17	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	77.0	MPa	ASTM D638
Yield	93.0	MPa	ISO 527-2/50
Break	93.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus			
-- ²	5000	MPa	ASTM D790
-- ³	5800	MPa	ISO 178
Flexural Strength			
-- ⁴	120	MPa	ASTM D790
-- ⁵	131	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	8.6	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 6.35 mm	79	J/m	ASTM D256
23°C ⁷	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	105	°C	ISO 75-2/B
0.45 MPa, Annealed	109	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648

1.8 MPa, Unannealed, 4.00 mm	100	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	105	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ISO 306/B50
--	107	°C	ISO 306/B120
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	260	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	93.2	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 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		

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



WECHAT