

Starex EG-7000

Acrylonitrile Butadiene Styrene + PET

SAMSUNG SDI CO., LTD.

Message:

Starex EG-7000 is an Acrylonitrile Butadiene Styrene + PET (ABS+PET) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-100039327		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.08	g/cm ³	ASTM D792
--	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	35	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.44 to 0.54	%	
Across Flow : 3.20 mm	0.46 to 0.57	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	95		ASTM D785
R-Scale	101		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1830	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	38.2	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2/50
Break ³	28.4	MPa	ASTM D638
Break	26.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.9	%	ASTM D638
Break	18	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1960	MPa	ASTM D790
-- ⁶	1900	MPa	ISO 178
Flexural Strength			
-- ⁷	55.9	MPa	ASTM D790
-- ⁸	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	34	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	210	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
23°C ¹⁰	27	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	80.0	°C	ISO 75-2/B
0.45 MPa, Annealed	97.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	78.0	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	78.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	70.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	88.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	90.0	°C	ISO 306/B50
--	91.0	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Optical	Nominal Value	Unit	Test Method
Yellowness Index (3.20 mm)	20	YI	ASTM D1925
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	230 to 240	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	245	°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.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		

4.	50 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

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

