

Starex GC-0703

Acrylonitrile Butadiene Styrene + PET
SAMSUNG SDI CO., LTD.

Message:

Starex GC-0703 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		E115797-101244384	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.30 to 0.80	%	
Across Flow : 3.20 mm	0.30 to 0.80	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1600	MPa	ASTM D638
--	1650	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	40.0	MPa	ISO 527-2/50
Break ³	34.0	MPa	ASTM D638
Break	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	14	%	ASTM D638
Break	14	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1700	MPa	ASTM D790
-- ⁶	1900	MPa	ISO 178
Flexural Strength			
-- ⁷	51.0	MPa	ASTM D790
-- ⁸	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	15	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	290	J/m	ASTM D256
23°C, 6.35 mm	170	J/m	ASTM D256
23°C ¹⁰	15	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	80.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	80.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	70.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	91.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	4.0	hr	
Desiccant Dryer	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	200 to 220	°C	
Middle Temperature	220 to 240	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	250	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	19.6	MPa	
Back Pressure	2.94 to 11.8	MPa	
Screw Speed	30 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		

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