

Starex GC-0700 H

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

Message:

Starex GC-0700 H 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	E115797-100071028		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	40	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1800	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	43.0	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2/50
Break ³	26.0	MPa	ASTM D638
Break	31.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	17	%	ASTM D638
Break	11	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1700	MPa	ASTM D790
-- ⁶	1760	MPa	ISO 178
Flexural Strength			
-- ⁷	49.0	MPa	ASTM D790
-- ⁸	49.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	390	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
23°C ⁹	40	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed, 6.40 mm	95.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	85.0	°C	ISO 75-2/B
0.45 MPa, Annealed	97.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	80.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	73.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	89.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating (3.00 mm)	HB	UL 94	
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	200 to 220	°C	
Middle Temperature	220 to 240	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	250	°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		

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