

Starex SR-7300

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

Message:

Material with superior chemical resistance that can be applied to the interior/exterior material of household appliances that require heat resistance

General Information			
UL YellowCard	E115797-100030799		
Features	Good Chemical Resistance		
	Medium Heat Resistance		
Uses	Household Goods		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	16	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.49 to 0.60	%	
Across Flow : 3.20 mm	0.56 to 0.69	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	41.0	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2/50
Break ³	33.0	MPa	ASTM D638
Break	30.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	25	%	ASTM D638
Break	19	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1900	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	61.0	MPa	ASTM D790
-- ⁸	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	28	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	290	J/m	ASTM D256
23°C, 6.35 mm	130	J/m	ASTM D256
23°C ¹⁰	34	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	99.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	94.0	°C	ISO 75-2/B
0.45 MPa, Annealed	101	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	90.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	78.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	92.0	°C	ISO 75-2/A
Vicat Softening Temperature	104	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.50 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	210	°C	
Middle Temperature	220 to 230	°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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