

Infino EM-8240C

Polyphenylene Ether

SAMSUNG SDI CO., LTD.

Message:

MPPE/GF material that is applied to the main frame of banknote sorter

General Information			
UL YellowCard	E115797-100780495		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
280°C/10.0 kg	42	g/10 min	
300°C/2.16 kg	10	g/10 min	
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.18	%	
Across Flow : 3.20 mm	0.25	%	
Ash Content	24	%	ISO 3451
ESD ¹ (23°C)	< 0.1	sec	JIS L1094
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	7000	MPa	ASTM D638
--	6000	MPa	ISO 527-2/5
Tensile Strength			
Yield ³	98.0	MPa	ASTM D638
Yield	100	MPa	ISO 527-2/5
Break ⁴	110	MPa	ASTM D638
Break	100	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁵	2.5	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
-- ⁶	9300	MPa	ASTM D790
-- ⁷	10000	MPa	ISO 178
Flexural Strength			
-- ⁸	120	MPa	ASTM D790
-- ⁹	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ¹⁰ (23°C)	48	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	39	J/m	ASTM D256
23°C, 6.35 mm	39	J/m	ASTM D256
23°C ¹¹	40	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	139	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	140	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	132	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	131	°C	ISO 75-2/A
Vicat Softening Temperature	118	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹²	1.0E+4	ohms	ASTM D257, IEC 60093
Flammability	Nominal Value	Unit	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 4.0	hr	
Suggested Max Moisture	0.10 to 0.20	%	
Rear Temperature	250 to 280	°C	
Middle Temperature	260 to 300	°C	
Front Temperature	270 to 320	°C	
Nozzle Temperature	310	°C	
Mold Temperature	80.0 to 100	°C	
Injection Pressure	78.5	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	45 to 80	rpm	
NOTE			
1.	50% RH		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	5.0 mm/min		
6.	2.8 mm/min		
7.	2.0 mm/min		
8.	2.8 mm/min		
9.	2.0 mm/min		

10.	Thickness: 4 mm
11.	Thickness: 4 mm
12.	23°C, 50% RH

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