

Infino MKD-1016

Polyamide

SAMSUNG SDI CO., LTD.

Message:

Infino MKD-1016 is a Polyamide product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
275°C/2.16 kg	13	g/10 min	
300°C/1.2 kg	10	g/10 min	
Molding Shrinkage - Flow			
3.20 mm	0.30	%	ASTM D955
3.20 mm	0.030	%	ISO 2577
Water Absorption			
23°C, 24 hr	3.9	%	ASTM D570
Equilibrium, 23°C, 50% RH	3.9	%	ISO 62
Ash Content			
--	55	%	ISO 3451
--	55	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19000	MPa	ASTM D638
--	18600	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	260	MPa	ASTM D638
Yield	260	MPa	ISO 527-2/5
Break ³	260	MPa	ASTM D638
Break	260	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.2	%	ASTM D638
Break	4.2	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	15000	MPa	ASTM D790
-- ⁶	16000	MPa	ISO 178

Flexural Strength			
-- ⁷	330	MPa	ASTM D790
-- ⁸	330	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	17	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	130	J/m	ASTM D256
23°C, 6.35 mm	120	J/m	ASTM D256
23°C ¹⁰	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	250	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	250	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	260 to 270	°C	
Middle Temperature	280 to 290	°C	
Front Temperature	300 to 310	°C	
Nozzle Temperature	300	°C	
Mold Temperature	60.0 to 130	°C	
Injection Pressure	49.0 to 245	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 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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