

Infino ASF-9810FM

Polybutylene Terephthalate
LOTTE ADVANCED MATERIALS CO., LTD.

Message:
Infino ASF-9810FM is a polybutene terephthalate (PBT) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

General Information			
Features	General		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.31	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	60	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	1.5 - 1.8	%	ASTM D955
Transverse flow: 3.20mm	1.7 - 2.0	%	ASTM D955
Lateral flow: 3.20mm	1.7 - 2.0	%	ISO 2577
Traffic: 3.20mm	1.5 - 1.8	%	ISO 2577
Water Absorption			
Equilibrium, 23°C	0.40	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class m	86		ASTM D785
Class r	116		ASTM D785
R scale	116		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2350	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	53.9	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/50
Fracture ³	44.1	MPa	ASTM D638
Fracture	49.0	MPa	ISO 527-2/2
Tensile Elongation			
Fracture ⁴	50	%	ASTM D638
Fracture	15	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2600	MPa	ASTM D790

-- 6	2320	MPa	ISO 178
Flexural Strength			
-- 7	83.4	MPa	ASTM D790
-- 8	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	3.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	29	J/m	ASTM D256
23°C, 6.35 mm	34	J/m	ASTM D256
23°C ¹⁰	3.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	165	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	160	°C	ISO 75-2/B
1.8 MPa, not annealed, 4.00mm	57.0	°C	ISO 75-2/A
Vicat Softening Temperature	185	°C	ISO 306/B50
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	5.0 mm/min		
6.	2.0 mm/min		
7.	5.0 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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