

Infino WP-1053

Polycarbonate + ABS

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino WP-1053 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) 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)	1.12	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	45	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	112		ASTM D785
R scale	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	53.0	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2/50
Fracture	46.0	MPa	ISO 527-2/50
Tensile Strain (Break)	78	%	ISO 527-2/50
Flexural Modulus			
-- ²	2200	MPa	ASTM D790
-- ³	2250	MPa	ISO 178
Flexural Strength			
-- ⁴	74.0	MPa	ASTM D790
-- ⁵	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	45	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	470	J/m	ASTM D256
23°C ⁷	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	115	°C	ISO 75-2/B
0.45 MPa, annealing, 4.00mm	119	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	105	°C	ASTM D648

1.8 MPa, not annealed, 4.00mm	94.0	°C	ISO 75-2/A
1.8 MPa, annealing, 4.00mm	106	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/B50
--	116	°C	ISO 306/B120

NOTE	
1.	50 mm/min
2.	2.8 mm/min
3.	2.0 mm/min
4.	2.8 mm/min
5.	2.0 mm/min
6.	Thickness: 4mm
7.	Thickness: 4mm

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