

Infino HC-8040

Polyamide + PPE

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HC-8040 is a polyamide PPE (nylon PPE) 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)	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.90 - 1.2	%	ASTM D955
Transverse flow: 3.20mm	0.90 - 1.1	%	ASTM D955
Lateral flow: 3.20mm	0.90 - 1.1	%	ISO 2577
Traffic: 3.20mm	0.90 - 1.2	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	114		ASTM D785
R scale	114		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2/20
Tensile Strength			
Yield ²	60.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Fracture ³	60.0	MPa	ASTM D638
Fracture	60.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	30	%	ASTM D638
Fracture	27	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2200	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	84.0	MPa	ASTM D790
-- ⁸	94.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	180	J/m	ASTM D256
23°C ¹⁰	20	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	108	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	85.0	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	8.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flow: 40 to 100°C	9.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Horizontal: 40 to 100°C	1.1E-4	cm/cm/°C	ASTM E831, ISO 11359-2
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: 4mm		
10.	Thickness: 4mm		

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