

Infino HM-6400M

Polyphthalamide

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HM-6400M is a polyxylylene amide (PPA) product, which contains mineral fillers. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: electrical/electronic applications.

General Information			
Filler / Reinforcement	Mineral filler		
Features	General		
Uses	Mobile phone		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.44	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 3.20mm	0.40 - 0.60	%	ASTM D955
Transverse flow: 3.20mm	0.70 - 0.90	%	ASTM D955
Lateral flow: 3.20mm	0.70 - 0.90	%	ISO 2577
Traffic: 3.20mm	0.40 - 0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	115		ASTM D785
R scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	78.5	MPa	ASTM D638
Yield	80.0	MPa	ISO 527-2/5
Fracture ²	78.5	MPa	ASTM D638
Fracture	80.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	2.0	%	ASTM D638
Fracture	2.0	%	ISO 527-2/5
Flexural Modulus			
-- ⁴	6370	MPa	ASTM D790
-- ⁵	6500	MPa	ISO 178
Flexural Strength			
-- ⁶	108	MPa	ASTM D790
-- ⁷	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁸ (23°C)	2.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.18 mm	25	J/m	ASTM D256
23°C, 6.35 mm	20	J/m	ASTM D256
23°C ⁹	2.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	250	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	250	°C	ISO 75-2/A
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	2.8 mm/min		
7.	2.0 mm/min		
8.	Thickness: 4mm		
9.	Thickness: 4mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

