

PP ABS HI12H

Acrylonitrile Butadiene Styrene
Performance Plastics, Ltd.

Message:
HI121H ABS: High Impact Grade; Suitable for Plating

General Information			
Features	High Impact Resistance		
	Platable		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	2.3	g/10 min	
220°C/10.0 kg	23	g/10 min	
230°C/3.8 kg	6.0	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	22600	MPa	ASTM D638
Tensile Strength ² (Yield)	51.3	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	> 5.0	%	
Break	> 10	%	
Flexural Modulus ⁴	26000	MPa	ASTM D790
Flexural Strength ⁵	76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D256
-30°C, 3.20 mm	78	J/m	
-30°C, 6.40 mm	78	J/m	
23°C, 3.20 mm	230	J/m	
23°C, 6.40 mm	230	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	90.0	°C	
0.45 MPa, Annealed, 6.40 mm	93.0	°C	
1.8 MPa, Unannealed, 6.40 mm	88.0	°C	
1.8 MPa, Annealed, 6.40 mm	92.0	°C	
Vicat Softening Temperature	94.0	°C	ASTM D1525 ⁶

Electrical	Nominal Value	Unit	Test Method
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Flammability (3.20 mm)	FH3-34	mm/min	IEC 707
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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