

Haysite Plastics H400

Thermoset Polyester
Haysite Reinforced Plastics

Message:

H400 is an advanced composite that combines high temperature resistant and high strength characteristics with static dissipative properties for use as wave and reflow solder pallets. SDL Grade H400 may be used as dedicated or adjustable flow solder carriers as well as surface mount pallets. Listed below are the expected performance properties of this material. H400 is available in snaded thicknesses from 3, 5, 6, 8, 10 and 12mm and in sheet sizes 36" x 72" and 48" x 96". Standard color is Black.

General Information			
Features	High Heat Resistance		
	High Strength		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.84	g/cm ³	ASTM D792
Water Absorption (25°C, 24 hr)	0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			ASTM D790
25°C ¹	16200	MPa	
25°C ²	15300	MPa	
150°C ³	7960	MPa	
150°C ⁴	7130	MPa	
200°C ⁵	6800	MPa	
200°C ⁶	6150	MPa	
Flexural Strength			ASTM D790
25°C ⁷	238	MPa	
25°C ⁸	223	MPa	
150°C ⁹	77.5	MPa	
150°C ¹⁰	73.5	MPa	
200°C ¹¹	50.0	MPa	
200°C ¹²	47.0	MPa	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.3E-5	cm/cm/°C	Internal Method
Specific Heat	946	J/kg/°C	ASTM E1269
Thermal Conductivity	0.43	W/m/K	ASTM E1925

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+10	ohms	ASTM D257
NOTE			
1.	Crosswise		
2.	Lengthwise		
3.	Crosswise		
4.	Lengthwise		
5.	Crosswise		
6.	Lengthwise		
7.	Crosswise		
8.	Lengthwise		
9.	Crosswise		
10.	Lengthwise		
11.	Crosswise		
12.	Lengthwise		

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