

BCC Resins MB5000

Polyurethane

BCC Products Inc.

Message:

BCC Products now offers a revolutionary state-of-the-art machineable high density board for today's demanding tooling requirements. MB 5000 is an extremely tough, high impact Urethane Plank that can be used for metal forming as well as nickel plating mandrels.

General Information			
Features	Good Surface Finish		
	Good Toughness		
	Good Wear Resistance		
	High Density		
	High Impact Resistance		
	Low Shrinkage		
	Platable		
Uses	Agricultural Applications		
	Molds/Dies/Tools		
	Prototyping		
Appearance	White		
Forms	Liquid		
Processing Method	Machining		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86 to 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	52.8	MPa	ASTM D638
Flexural Modulus	4720	MPa	ASTM D790
Flexural Strength	68.8	MPa	ASTM D790
Compressive Strength	93.1	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.6	°C	ASTM D648
Glass Transition Temperature	102	°C	ASTM D4065
CLTE - Flow (-30 to 30°C)	4.1E-5	cm/cm/°C	ASTM D3386

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