

BCC Products MB 5000 Urethane Tooling Board

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

MB 5000 is an extremely tough, high impact Urethane Plank, that can be used for metal forming as well as nickel plating mandrels.

Features: excellent machinability, low dust emission, mostly shavings, no shrinkage, excellent impact and wear resistance, excellent surface detail reproduction, and excellent surface finish. Uses: fixtures, proofing intricate NC designs, numerous tooling aids, various prototypes, architectural models, foundry patterns, metal forming dies, and jigs. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-MB-5000-Urethane-Tooling-Board.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM-D-792-66

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86 - 90	86 - 90	ASTM D2240
Tensile Strength, Ultimate	52.78 MPa	7655 psi	
Flexural Strength	68.8 MPa	9980 psi	ASTM D790
Flexural Modulus	4.72 GPa	685 ksi	ASTM-D-790

Thermal Properties	Metric	English	Comments
CTE, linear	41.2 $\mu\text{m/m-}^{\circ}\text{C}$	22.9 $\mu\text{in/in-}^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	90.6 $^{\circ}\text{C}$	195 $^{\circ}\text{F}$	ASTM-D-648-56
Glass Transition Temp, Tg	102 $^{\circ}\text{C}$	215 $^{\circ}\text{F}$	ASTM D4065

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