

BCC Products MB 4000 RED Urethane Foundry Plank

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

MB4000 Red is an extremely tough, high impact Urethane Plank, that can replace aluminum and other metals for many foundry applications. Features: excellent machinability, low dust emission, mostly shavings, no shrinkage, excellent impact and wear resistance, excellent surface detail reproduction, excellent surface finish, and polishable to a high gloss. Uses: proofing intricate NC designs, numerous tooling aids, various prototypes, architectural models, foundry patterns and core boxes, and short run metal stamping dies. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-MB-4000-RED-Urethane-Foundry-Plank.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM-D-792-66

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength, Ultimate	75.08 MPa	10890 psi	
Elongation at Break	14.5 %	14.5 %	ASTM D638
Flexural Strength	119.6 MPa	17350 psi	ASTM D790
Flexural Modulus	2.953 GPa	428.3 ksi	ASTM-D-790
Izod Impact, Notched	0.454 J/cm	0.850 ft-lb/in	ASTM D256
Izod Impact Unnotched	29.77 J	21.96 ft-lb	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	64.1 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	35.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	101 $^{\circ}\text{C}$	214 $^{\circ}\text{F}$	ASTM-D-648-56
Glass Transition Temp, Tg	116 $^{\circ}\text{C}$	240 $^{\circ}\text{F}$	ASTM D4065

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