

BMC MATERIALS OVERVIEW CHART

787 Renaissance Parkway | Painesville, OH 44077



PROPERTIES		MB1000-10	MB1000-15	MB1100-15	MB2000-10	MB2000-15	MB2000-20	MB2000-22	MB2000-25	MB2100	MB3000-15NY	MB3000-20NY	MB4000	MB5000	MB5500	MB6000	MB7000
Listed File E80533	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Flammability UL94	-	HB	HB	V0	V0	V0	V0	V0	V0	V0	V0/5V	V0/5VA	V0	V0	V0	HB	V0
MECHANICAL PROPERTIES																	
Impact Strength, Notched Izod, Ft Lbs/in	D256	2.5-3.5	4-5	4-6	4-6	5-7	8-10	10-13	10-12	18-22	8-10	8-14	7-10	14-16	8-10	3-7	3-7
Flexural Strength, Kpsi	D790	14-16	18-21	14-18	13-16	16-18	19-22	20-26	23-25	30-35	18-20	18-21	13-17	23-28	17-19	15-23	15-23
Flexural Modulus, Mpsi	D790	2-2.2	1.6-1.8	1.85-1.95	1.3-1.6	1.5-1.8	1.7-2.0	1.5-1.7	1.6-1.7	3-3.3	1.8-1.9	1.8-1.9	1.7-1.9	1.3-1.4	1.6-1.8	1.6-2.2	1.6-2.2
Tensile Strength, Kpsi	D638	5-6	7-9	7-9	4.5-5.5	6-7.5	5-8	8-10	8.5-10	13-16	5-6	6-9	5-6.5	10-14	6-8	5-9	5-9
Compressive Strength, Kpsi	D695	15-18	18-22	-	17-19	18-21	20-24	20-24	20-25	-	14-16	14-16	14-15	20-24	13-16	16-22	16-22
Shear Strength, Kpsi	D732	6-7	7-8	-	6-7	8-9	9-11	-	10-12	-	8-9	8-9	-	-	-	-	-
ELECTRICAL PROPERTIES																	
Arc Resistance, Seconds	D495	180+	180+	185+	185+	185+	185+	185+	185+	185+	185+	185+	185+	180+	185+	-	190+
Inclined-Plane Tracking, Minutes	D2303	500+	500+	-	1000+	1000+	1000+	-	1000+	-	1000+	1000+	1500+	-	1000+	-	-
Dielectric Strength VPM	D149	320	320	505	320+	350+	350+	350+	350+	610	360+	360+	350+	460	350+	-	560
PHYSICAL PROPERTIES																	
Specific Gravity	D792	1.9-2.0	1.8-2.0	1.95-2.01	1.8-1.9	1.8-1.5	1.75-1.8	1.8-1.9	1.7-1.75	1.8-1.85	1.85-1.95	1.7-1.85	1.7-1.9	1.75-1.9	1.75-1.8	1.9-2.05	1.90-2.05
Mold Shrinkage 0.001/in	D955	0.5-3	0.5-3	1-3	0.5-3	0.5-3	0.5-2	0.5-2	0.5-2	0.2-2.5	0.5-1.5	0.5-1.5	0.5-3	1.5-3.5	0.5-2	+0.1-0.2	-0.002
Barcol Hardness	D2583	35-50	35-45	35	35-45	35-45	35-45	40-50	40-50	40-60	45-55	45-55	41-47	40-60	35-45	40-60	40-60
Heat Distortion Temp @ 264 psi Deg F	D648	>500	>500	>500	>500	>500	>500	>500	>500	>260	>500	>500	>500	>500	>500	>500	>500
Water Absorption % in 24 hrs	D570	0.17	0.17	0.2<	0.14	0.13	0.12	0.13	0.13	<0.15	0.12	0.12	0.12	<0.25	0.12	.1	0.1-0.3
Relative Thermal Index	UL746B	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266	266/266/266		320/320/338
COLOR CHANGE UNDER HEAT																	
White 150°C for 300 hrs, ΔE	-	-	-	-	-	-	-	-	-	-	1.2-1.7	1.2-1.7	-	-	-	-	-
Bisque 150°C for 300 hrs, ΔE	-	-	-	-	-	-	-	-	-	-	1-1.5	1-1.5	-	-	-	-	-

All property values are based on test performed on standard ASTM test samples and according to standard ASTM test methods unless otherwise indicated. This information is offered solely for your consideration and is to be used as a guide only. No other warranty is implied.

Contact Us:

CORPORATE HEADQUARTERS

10095 Queens Way Chagrin Falls, Ohio 44023-5495
 (440) 543-7526 Fax: (440) 543-4691
www.Altraset.com

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