



MATERIALS DATA SHEET

787 Renaissance Parkway | Painesville, OH 44077



PROPERTIES		MB1000-	MB1000-	MB1000-	MB1100-	MB2000-	MB2000-	MB2000-	MB2000-	MB2000-	MB3000-	MB3000-	MB4000	MB5500	MB6000
		10	15	25	15	5	10	15	20	25	15NY	20NY			
Listed File E80533	-	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Flammability UL94	-	HB	HB	HB	V0	V0	V0	V0	V0	V0	V0/5V	V0/5V	V0	V0	HB
MECHANICAL PROPERTIES															
Impact Strength, Notched Izod, Ft Lbs/in	D256	2.5-3.5	4-5	7-10	4-6	1.5-2.5	4-6	5-7	8-10	10-12	8-10	8-14	7-10	8-10	3-7
Flexural Strength, Kpsi	D790	14-16	18-21	19-22	14-18	8-11	13-16	16-18	19-22	23-25	18-20	18-21	13-17	17-19	15-23
Flexural Modulus, Mpsi	D790	2-2.2	1.6-1.8	1.6-1.7	1.85-1.95	1.3-1.6	1.3-1.6	1.5-1.8	1.7-2.0	1.6-1.7	1.8-1.9	1.8-1.9	1.7-1.9	1.6-1.8	1.6-2.2
Tensile Strength, Kpsi	D638	5-6	7-9	8-10	7-9	4-5	4.5-5.5	6-7.5	5-8	8.5-10	5-6	6-9	5-6.5	6-8	5-9
Compressive Strength, Kpsi	D695	15-18	18-22	20-24	-	14-16	17-19	18-21	20-24	20-25	14-16	14-16	14-15	13-16	16-22
Shear Strength, Kpsi	D732	6-7	7-8	7-9	-	4-5	6-7	8-9	9-11	10-12	8-9	8-9	-	-	-
ELECTRICAL PROPERTIES															
Arc Resistance, Seconds	D495	180+	180+	140+	185+	185+	185+	185+	185+	185+	185+	185+	185+	185+	-
Inclined-Plane Tracking, Minutes	D2303	500+	500+	500+	-	1000+	1000+	1000+	1000+	1000+	1000+	1000+	1500+	1000+	-
Dielectric Strength VPM	D149	320	320	355	505	400+	320+	350+	350+	350+	360+	360+	350+	350+	-
PHYSICAL PROPERTIES															
Specific Gravity	D792	1.9-2.0	1.8-2.0	1.7-1.9	1.95-2.01	1.8-1.9	1.8-1.9	1.8-1.5	1.75-1.8	1.7-1.75	1.85-1.95	1.7-1.85	1.7-1.9	1.75-1.8	1.90-2.05
Mold Shrinkage 0.001/in	D955	0.5-3	0.5-3	0.5-2	1-3	0.5-3	0.5-3	0.5-3	0.5-2	0.5-2	0.5-1.5	0.5-1.5	0.5-3	0.5-2	-0.002
Barcol Hardness	D2583	35-50	35-45	45-55	35	25-35	35-45	35-45	35-45	40-50	45-55	45-55	41-47	35-45	40-60
Heat Distortion Temp @ 264 psi Deg F	D648	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500
Water Absorption % in 24 hrs	D570	0.17	0.17	0.13	0.2<	0.17	0.14	0.13	0.12	0.13	0.12	0.12	0.12	0.12	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	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.

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