



MATERIALS DATA SHEET

787 Renaissance Parkway | Painesville, OH 44077



PROPERTIES		MB1000-	MB1000-	MB1000-	MB1100-	MB2000-	MB2000-	MB2000-	MB2000-	MB2000-	MB2100	MB3000-	MB3000-	MB4000	MB5500	MB6000
		10	15	25	15	5	10	15	20	25		15NY	20NY			
Listed File E80533	-	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Flammability UL94	-	HB	HB	HB	V0	V0	V0	V0	V0	V0	V0	V0/5V	V0/5V	V0	V0	HB
MECHANICAL PROPERTIES																
Impact Strength, Notched Izod, J/m	D256	135-185	215-320	370-535	210-320	80-135	215-320	270-370	425-530	530-640	950-1150	425-535	425-750	505-560	425-530	160-370
Flexural Strength, Mpa	D790	95-110	125-145	130-150	95-125	55-75	90-110	110-125	130-150	160-170	230-250	125-145	125-145	115-125	115-130	100-160
Flexural Modulus, Gpa	D790	13.8-15.1	11-12.4	10.3-11.7	12.7-13.4	9.0-11.0	9.0-11.0	10.3-12.4	11.7-13.8	10.3-11.7	22.5-23.5	12.4-13.1	12.4-13.1	11.7-13.1	11.0-12.5	11.0-15.1
Tensile Strength, Mpa	D638	50-70	50-60	50-70	50-60	25-35	30-35	40-50	35-55	55-70	100-110	35-40	40-60	60-70	40-55	35-60
Compressive Strength, Mpa	D695	105-125	125-150	140-165	-	95-110	120-30	125-145	140-165	140-170	-	95-110	95-110	145-165	90-10	-
Shear Strength, Mpa	D732	40-50	50-55	50-60	-	25-35	40-50	55-60	60-75	70-80	-	55-60	55-60	-	-	-
ELECTRICAL PROPERTIES																
Arc Resistance, Seconds	D495	180+	180+	140+	185+	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 kV/mm	D149	12.6	12.6	14	20	15.8	12.6	13.8	13.8	13.8	24	14.2	14.2	13.8	13.8	-
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	1.8-1.85	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	0.2-2.5	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	40-60	45-55	45-55	41-47	35-45	40-60
Heat Distortion Temp @ 264 psi Deg C	D648	>260	>260	>260	>260	>260	>260	>260	>260	>260	>260	>260	>260	>260	>260	>260
Water Absorption % in 24 hrs	D570	0.17	0.17	0.13	0.2<	0.17	0.14	0.13	0.12	0.13	<0.15	0.12	0.12	0.12	0.12	0.1-0.3
Relative Thermal Index	UL746B	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	130/130/130	160/160/170	-
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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