

Characteristics and Applications of MBS

Grade	M-31	M-41	M-51	M-61	M-81
Appearance	White	White	White	White	White
Bulk Density g/c.c.	0.3 Min	0.3 Min	0.3 Min	0.3 Min	0.3 Min
Volatile Matter %	1.0 Max	1.0 Max	1.0 Max	1.0 Max	1.0 Max
Impact Strength	○	◎	◎+	○	◎-
Transparency	◎	○	△	◎	○+
Heat Stability	◎	◎	◎	◎	◎
Stress Whitening	○+	○	△	◎	○
Tensile Strength kg/cm ² (JIS K-6745)	539	570	590	541	560
Elongation At Break % (JIS K-P6745)	338	379	358	390	380
Vicat Temp °C (ASTM D-1525)	86.1	85.2	85.6	85.7	85.3
Hardness (Shore D)	76-79	75-78	76-78	76-78	75-78
Characteristics	<ul style="list-style-type: none"> ● Enhance Fusion ● Excellent Transparency ● Excellent Thermal Molding ● Low Stress Whitening ● Odorless ● Free Flow ● FDA & PL Approval 	<ul style="list-style-type: none"> ● Oil Resistance ● Odorless ● Free Flow ● FDA & PL Approva 	<ul style="list-style-type: none"> ● Excellent Impact Strength(low Temp.) ● Godd Melting Strength ● Good Fusion Behavior ● Odorless ● Free Flow ● FDA & PL Approva 	<ul style="list-style-type: none"> ● Excellent Transparency and Little Haze ● Excellent Thermal Molding ● Low Stress Whitening ● Odorless ● Free Flow ● FDA & PL Approva 	<ul style="list-style-type: none"> ● Good Impact Strength ● Excellent Transparency ● Excellent Thermal Molding ● Low Stress Whitening ● Odorless ● Free Flow ● FDA & PL Approva
Applications	<ul style="list-style-type: none"> ● Molded Products ● Plate/Sheet/Film 	<ul style="list-style-type: none"> ● Blow Mold ● Edible Oil Bottle 	<ul style="list-style-type: none"> ● Profile ● Fitting ● Opaque Sheet/Film 	<ul style="list-style-type: none"> ● Metalized Film ● Molded Products ● UC Tube 	<ul style="list-style-type: none"> ● Blow Mold ● Shrinking Film

◎ Excellent ○ Good △ Fair

Characteristics and Applications of PA

Item		Grade	P-101	P-201	P-301
Appearance			Fine,white,free flowing powder with uniform particle size	Fine,white,free flowing powder with uniform particle size	Fine,white,free flowing powder with uniform particle size
Bulk Density g/c.c.			0.35 Min	0.45 Min	0.45 Min
Specific Viscosity			0.33	0.7	0.72
Moisture %			1.0 Max	1.0 Max	1.0 Max
Thermal Stability			◎	◎	◎
Solubility			MEK、Cyclohexanone、Toluene、THF	MEK、Cyclohexanone、Toluene、THF	MEK、Cyclohexanone、Toluene、THF
Tensile Strength kg/cm ² (ASTM D638)	25℃		590	600	600
	100℃		53	56	58
Elongation % (ASTM D638)	25℃		155	166	166
	100℃		405	470	480
Transparency % (ASTM D1003-61)			87	87.3	87.2
Haze % (ASTM D1003-61)			4.4	4.2	4.3
Heat Distortion Temp. °C (ASTM D1526)			68	68.3	68.3
Hardness (ASTM D792)			118	118	118
Characteristics			Lubrication Type	General Type	High Efficiency Dispersion Type
Applications			Use as exterior lubricant	For rigid,semi-rigid calendar,extruded,blow-molded,injection-molded,second-processed use	For rigid,semi-rigid calendar,extruded,blow-molded,injection-molded,second-processed,foam-molded use