

# BM-662 (Blow Molding Grade)

## Application

Automobile air spoiler, etc. electric/electronic—refrigerator, freezer, etc. O.A. machine—office furniture: copy machine, etc. Housing component etc.

## Feature

LG ABS for blow molding has good melting strength, melting elasticity and welding strength demanded for blow molding. Due to these great properties, it is widely applied to various applications such as automobile parts, electric/electronic parts, and office automation systems such as copying machines.

Properties	Test Method	Test Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792		g/cc	1.05
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200℃/ 5kg	g/10min	1
	—	220℃/ 10kg	g/10min	6
	ASTM D1238(I)	230℃/ 3.8kg	g/10min	2
<b>Mechanical</b>				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	480
			lb/in <sup>2</sup>	6,800
Tensile Modulus	ASTM D638	1mm/min	kg/cm <sup>2</sup>	24,800
			lb/in <sup>2</sup>	
Elongation at yield	ASTM D638	50mm/min	%	6
Elongation at break	ASTM D638	50mm/min	%	30
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm <sup>2</sup>	760
			lb/in <sup>2</sup>	10,800
Flexural Modules	ASTM D790	15mm/min	kg/cm <sup>2</sup>	25,000
			lb/in <sup>2</sup>	355,000
Izod Impact Strength (Noched)	ASTM D256	1/4", '23℃	kg·cm/cm	25
		1/4", '-30℃	kg·cm/cm	9
		1/8", '23℃	kg·cm/cm	27
		1/8", '-30℃	kg·cm/cm	10
Rockwell Hardness	ASTM D785	R-Scale	—	109
<b>Thermal</b>				
Heat Deflection Temp	ASTM D648	18.5kg/cm <sup>2</sup> , 1/4" (annealed)	℃	97
			°F	207
		18.5kg/cm <sup>2</sup> , 1/4" (unannealed)	℃	93
			°F	199
		4.6kg/cm <sup>2</sup> , 1/4" (annealed)	℃	105
			°F	221
4.6kg/cm <sup>2</sup> , 1/4" (unannealed)	℃	102		
	°F	216		
Vicat Softening Temp	ASTM D1525	5kg, 50℃/h	℃	100
			°F	212
Flammability	UL94	1/8"	class	
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	
		1/16"	mm/min	