

ABS BM662B

Blow Molding

Description

Blow Molding, Heat Resistance

Application

Automotives Exterior Housing
(Spoiler, Bumper Guard etc)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.05
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	2
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	470
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	50mm/min		%	15
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	710
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	21,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23℃		kg·cm/cm	16
	-30℃		kg·cm/cm	6
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23℃		kg·cm/cm	16
	-30℃		kg·cm/cm	7
Rockwell Hardness	R-Scale	ASTM D785	-	100
Thermal				
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		℃	103
	4.6kg		℃	110
Vicat Softening Temperature		ASTM D1525		
	1kg, 120℃/h		℃	110
Flammability		UL94		
Relative Temperature Index		UL 746B		
Electrical			℃	
Mechanical with Impact			℃	
Mechanical without Impact			℃	

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection moulded specimens and after 48 hours storage at 23℃, 50% relative humidity.

Updated : 23-Feb-16

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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	-
Surface Resistivity		IEC 60093	Ohm	-
Volume Resistivity	23℃	ASTM D257	Ohm·m	-
Arc Resistance	23℃	ASTM D495	Ohm·cm	-
Dielectric Strength, 1mm	23℃	ASTM D149	kV/mm	-
Dielectric Constant (10 ⁶ Hz)	23℃	ASTM D150	sec	-

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Processing Guide (Blow Molding)

Processing Parameters		Unit	Value
Drying Temperature		℃	80 ~ 90
Drying Time		hrs	3 ~ 4
Minimum Moisture Content		%	0.05 below
Melt Temperature		℃	200 ~ 230
Barrel Temperature	Zone 1	℃	180 ~ 200
	Zone 2	℃	190 ~ 210
	Zone 3	℃	190 ~ 210
	Zone 4	℃	200 ~ 220
Adapter Temperature		℃	220
Die Temperature		℃	220
Roll Stack Temperature	Top	℃	-
	Middle	℃	-
	Bottom	℃	-

Note) Recommend initial lower temperatures settings to avoid material degradation/hang-up in die & purge material from extruder prior to shutdown.

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