



MABS TR551

Injection Molding

Description

Optical

Haze

Application

High Transparency, High Rigidity, High Hardness

Electric&Electronic Products

220°C/10kg	ASTM D792 ASTM D1238	- a/10mis	4.12
220℃/10kg		- a/10mis	1.10
220℃/10kg		- a/10min	1 10
220℃/10kg	ASTM D1238	a/10min	1.12
		g/10min	8
	ASTM D638		
50mm/min		kg/cm ²	580
	ASTM D638	••	
50mm/min		%	20
15mm/min	ASTM D790	kg/cm ²	940
15mm/min	ASTM D790	kg/cm ²	28,000
	ASTM D256		
23 ℃		kg·cm/cm	12
	ASTM D256		
23 ℃		kg·cm/cm	13
R-Scale	ASTM D785	-	117
	ASTM D648		
18.6kg		$^{\circ}$	87
		~	01
		<u> </u>	01
	23℃ 23℃ R-Scale	ASTM D790 ASTM D256 23℃ ASTM D256 23℃ R-Scale ASTM D785 ASTM D785	15mm/min

Transparency ASTM D1003 %

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

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

ASTM D1003

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1.9

90

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Processing Guide(Injection Molding)

Processi	ng Parameters	Unit	Value
Drying Temperature		${\mathbb C}$	80
Drying Time		hrs	2 ~ 4
Maximum Moisture Content		%	0.1
Melt Temperature		$^{\circ}$	210 ~ 240
Cylinder Temperature	Rear	°C	190 ~ 210
	Middle	$^{\circ}$ C	200 ~ 220
	Front	$^{\circ}$ C	210 ~ 230
Nozzle Temperature		$^{\circ}$	210 ~ 240
Mold Temperature		${\mathbb C}$	40 ~ 70
Back Pressure		kg/cm ²	300 ~ 600
Screw Speed		rpm	under 80

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

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These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.