

# ABS XG568

## Injection Molding

### Description

Anti-Scratch, High Gloss, High Flow

### Application

LCD TV Front Cabinet, Bezel  
Audio/Video Housing

Properties	Test Condition	Test Method	Unit	Typical Value
<b>Physical</b>				
Specific Gravity		ASTM D792	-	1.11
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.2~0.4
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	19.5
Water Absorption	23℃, 24hrs	ASTM D570	%	0.3
<b>Mechanical</b>				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm <sup>2</sup>	540
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	>6
@ Break	50mm/min		%	20
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	870
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	28,000
IZOD Impact Strength, 6.4mm (Notched)		ASTM D256		
	23℃		kg·cm/cm	9
	-30℃		kg·cm/cm	4
IZOD Impact Strength, 3.2mm (Notched)		ASTM D256		
	23℃		kg·cm/cm	9
	-30℃		kg·cm/cm	4
Rockwell Hardness	R-Scale	ASTM D785	-	114
<b>Thermal</b>				
Heat Deflection Temperature, 6.4mm (Unannealed)		ASTM D648		
	18.6kg		℃	83
	4.6kg		℃	88
Heat Deflection Temperature, 3.2mm (Unannealed)		ASTM D648		
	18.6kg		℃	82
	4.6kg		℃	86
Flammability		UL94		
1.6mm			class	HB
3.2mm			class	HB
<b>Others</b>				
Ozone Resistance	5sec	JIS K6301	-	No Crack

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.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由厂家发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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### Processing Guide (Injection Molding)

Processing Parameters	Unit	Value	
Drying Temperature	°C	80 ~ 90	
Drying Time	hrs	3 ~ 4	
Minimum Moisture Content	%	0.01	
Melt Temperature	°C	200 ~ 230	
Cylinder Temperature	Rear	°C	180 ~ 200
	Middle	°C	190 ~ 210
	Front	°C	200 ~ 220
Nozzle Temperature	°C	200 ~ 230	
Mold Temperature	°C	40 ~ 60	
Back Pressure	kg/cm <sup>2</sup>	300 ~ 600	
Screw Speed	rpm	30 ~ 60	

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

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

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