

ABS SG175

Injection Molding

Description

Super Surface Gloss

Application

Electric&Electronic Products

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°C/10kg	ASTM D1238	g/10min	33
Mechanical				
Tensile Strength, 3.2mm @ Yield	50mm/min	ASTM D638	kg/cm ²	500
Tensile Elongation, 3.2mm @ Break	50mm/min	ASTM D638	%	30
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	800
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	26,500
IZOD Impact Strength, 6.4mm (Notched)	23°C	ASTM D256	kg·cm/cm	20
	-30°C		kg·cm/cm	
IZOD Impact Strength, 3.2mm (Notched)	23°C	ASTM D256	kg·cm/cm	23
	-30°C		kg·cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	110
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	86
	4.6kg		°C	
Vicat Softening Temperature	5kg, 50°C/h	ASTM D1525	°C	95
Flammability		UL94		HB
Relative Temperature Index		UL 746B		
Electrical			°C	60
Mechanical with Impact			°C	60
Mechanical without Impact			°C	60

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°C, 50% relative humidity.

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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	0
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23℃	ASTM D257	Ohm·m	
Arc Resistance	23℃	ASTM D495	Ohm·cm	6

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value	
Drying Temperature	℃	80	
Drying Time	hrs	2 ~ 4	
Minimum Moisture Content	%	0.01	
Melt Temperature	℃	210 ~ 240	
Cylinder Temperature	Rear	℃	180 ~ 200
	Middle	℃	190 ~ 210
	Front	℃	200 ~ 220
Nozzle Temperature	℃	200 ~ 230	
Mold Temperature	℃	40 ~ 70	
Back Pressure	kg/cm ²	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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