SolutionPartner

LG Chem

SG175

Description

SG175 is an ABS product for injection molding, designed to have a super gloss level.

Key Features

Super Gloss

Application

Refrigerator, Washing Machine, Electrical/Electronic Products

Properties	Condition	Method	Unit	SG175
Physical				
Specific Gravity	23℃	ASTM D792		1.05
Mold Shrinkage	23℃, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	31
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	46
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	10
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	76
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2600
Izod Impact Strength	Notched, 3.2mm, 23℃	ASTM D256	J/m	220
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	190
Rockwell Hardness	R-Scale	ASTM D785		110
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	87
Vicat Softening Temperature	50N, 50℃/h	ASTM D1525	℃	94

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.
Values given should not be interpreted as specification and not be used for designing part or tool.
All properties, except melt flow index are measured by injection molded specimens after 48 hours storage at 23℃, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	℃	70 ~ 80
Drying Time	hrs	3 ~ 4
Injection Temperature	℃	200 ~ 250
Mold Temperature	℃	40 ~ 80
Screw Speed	rpm	30 ~ 60

Note

Injection Temperature & 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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