SolutionPartner

LG Chem

LI940

Description

LI940 features a high gloss surface with good multi-axial impact strength. It is targeted to replace painted parts

Key Features

High Heat Resistance, Non Painting, High Weatherability, Scratch Resistance, High Gloss, Multi-axial Impact Strength

Application

Bumper,Outside Mirror,Spoiler

Properties	Condition	Method	Unit	LI940
Physical				
Specific Gravity	23℃	ASTM D792		1.1
Mold Shrinkage	23℃, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	8
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	45
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	15
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	65
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2000
Izod Impact Strength	Notched, 3.2mm, 23℃	ASTM D256	J/m	90
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	90
Rockwell Hardness	R-Scale	ASTM D785		103
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	88
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	℃	220 ~ 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.