+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

WeConnectScience

LG Chem

LI942

Description

LI942 is a low gloss ASA with excellent weatherability, designed for exterior parts

Key Features

High Heat Resistance, Non Painting, Weatherability, Low Gloss

Application

Bumper,Others

Properties	Condition	Method	Unit	LI942
Physical				
Specific Gravity	23℃	ASTM D792		1.09
Mold Shrinkage	23℃, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	3
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	47
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	10
Tensile Modulus	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	2150
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	74
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2300
Izod Impact Strength	Notched, 3.2mm, 23℃	ASTM D256	J/m	90
Izod Impact Strength	Notched, 3.2mm, -30℃	ASTM D256	J/m	25
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	90
Izod Impact Strength	Notched, 6.4mm, -30℃	ASTM D256	J/m	25
Rockwell Hardness	R-Scale	ASTM D785		105
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	101
Heat Deflection Temperature	Edgewise, 0.46MPa, 6.4mm, Unannealed	ASTM D648	℃	107
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Annealed	ASTM D648	℃	105
Heat Deflection Temperature	Edgewise, 0.46MPa, 6.4mm, Annealed	ASTM D648	℃	110
Vicat Softening Temperature	50N, 50℃/h	ASTM D1525	℃	105
Flammability	1.5mm	UL 94		HB
Flammability	3.0mm	UL 94		HB

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	℃	80 ~ 90
Drying Time	hrs	3 ~ 4
Injection Temperature	℃	220 ~ 270
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.