

HI100

Description

HI100 is an ABS product for injection molding, designed to have very high impact strength.

Key Features

High Impact Strength

Application

Pipe, Irrigation Part, Fittings, Miscellaneous Goods

Properties	Condition	Method	Unit	HI100
Physical				
Specific Gravity	23°C	ISO 1183		1.02
Mold Shrinkage	23°C, 3.2mm	ISO 294-4	%	0.4 ~ 0.7
Melt Flow Rate	220°C, 10kg	ISO 1133	g/10min	11
Mechanical				
Tensile Strength at Yield	23°C, 50mm/min, 4mm	ISO 527	MPa	33
Tensile Elongation at Break	23°C, 50mm/min, 4mm	ISO 527	%, (Min)	10
Flexural Strength	23°C, 2mm/min, 4mm	ISO 178	MPa	52
Flexural Modulus	23°C, 2mm/min, 4mm	ISO 178	MPa	1650
Izod Impact Strength	Notched, 4mm, 23°C	ISO 180/1A	kJ/m ²	40
Izod Impact Strength	Notched, 4mm, -30°C	ISO 180/1A	kJ/m ²	20
Charpy Impact Strength	Notched, 4mm, 23°C	ISO 179/1eA	kJ/m ²	40
Charpy Impact Strength	Notched, 4mm, -30°C	ISO 179/1eA	kJ/m ²	20
Rockwell Hardness	R-Scale	ISO 2039		93
Thermal				
Heat Deflection Temperature	Flatwise, 1.8MPa, 4mm, Unannealed	ISO 75	°C	77
Vicat Softening Temperature	50N, 50°C/h	ISO 306	°C	90

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°C, 50% relative humidity.

Updated Date: 2021-05-07 Issued Date : 2021-09-23

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.

HI100

Description

HI100 is an ABS product for injection molding, designed to have very high impact strength.

Key Features

High Impact Strength

Application

Pipe, Irrigation Part, Fittings, Miscellaneous Goods

Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	°C	70 ~ 80
Drying Time	hrs	3 ~ 4
Injection Temperature	°C	200 ~ 250
Mold Temperature	°C	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.

Updated Date: 2021-05-07 Issued Date : 2021-09-23

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.