

# HF380-M

## Description

HF380-M is an ABS product for injection molding, designed to have high fluidity.

## Key Features

High Flow

## Application

Medical equipment

Properties	Condition	Method	Unit	HF380-M
<b>Physical</b>				
Specific Gravity	23°C	ISO 1183		1.04
Mold Shrinkage	23°C, 3.2mm	ISO 294-4	%	0.4 ~ 0.7
Melt Flow Rate	220°C, 10kg	ISO 1133	g/10min	40
<b>Mechanical</b>				
Tensile Strength at Yield	23°C, 50mm/min, 4mm	ISO 527	MPa	45
Tensile Elongation at Break	23°C, 50mm/min, 4mm	ISO 527	%, (Min)	10
Flexural Strength	23°C, 2mm/min, 4mm	ISO 178	MPa	72
Flexural Modulus	23°C, 2mm/min, 4mm	ISO 178	MPa	2600
Izod Impact Strength	Notched, 4mm, 23°C	ISO 180/1A	kJ/m <sup>2</sup>	24
Izod Impact Strength	Notched, 4mm, -30°C	ISO 180/1A	kJ/m <sup>2</sup>	9
Charpy Impact Strength	Notched, 4mm, 23°C	ISO 179/1eA	kJ/m <sup>2</sup>	26
Charpy Impact Strength	Notched, 4mm, -30°C	ISO 179/1eA	kJ/m <sup>2</sup>	10
Rockwell Hardness	R-Scale	ISO 2039		108
<b>Thermal</b>				
Heat Deflection Temperature	Flatwise, 1.8MPa, 4mm, Unannealed	ISO 75	°C	73
Vicat Softening Temperature	50N, 50°C/h	ISO 306	°C	93

## 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.

Issued Date : 2025-09-24

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## 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.

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