

# M1400

## Description

Polypropylene block copolymer for injection molding  
 Good balance of stiffness and impact strength  
 Complies with FDA Regulations 21 CFR 177.1520 for food contact

## Application

Filter Case, Toys, Housewares, Home appliances

Properties	Method	Condition	Unit	M1400
<b>Physical</b>				
MFI	ASTM D1238	230°C, 2.16kg load	g/10min	8
Density	ASTM D1505	Density-Gradient	g/cm <sup>3</sup>	0.9
<b>Mechanical</b>				
Tensile Strength at yield point(kgf/cm <sup>2</sup> )	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	250
Elongation at Break Point	ASTM D638	50mm/min	%	<300
Flexural Modulus(kgf/cm <sup>2</sup> )	ASTM D790	Press sheet, 1% Secant	kgf/cm <sup>2</sup>	12000
Izod Impact Strength(kgf·cm/cm)	ASTM D256	23°C, Notched	kgf·cm/cm	12
Izod Impact Strength(kgf·cm/cm)	ASTM D256	-20°C, Notched	kgf·cm/cm	4
Rockwell Hardness(R-Scale)	ASTM D785	R-Scale		90
<b>Thermal</b>				
Vicat Softening Temperature	ASTM D1525	A50	°C	150
Heat Deflection Temperature	ASTM D648	4.6kgf/cm <sup>2</sup>	°C	105

## Note

The properties data in this table are typical values, and not guaranteed specification.  
 Typical resin property values are measured on a standard injection molded specimens.

Issued Date : 2022-02-11

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.