SABIC® PP 57MNK40

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP 57MNK40 is a controlled rheology PP grade and specially developed for producing injection molded articles. This grade contains nucleating & antistatic agents. It has excellent impact resistance (even at low temperature) and balanced stiffness.

TYPICAL APPLICATIONS

SABIC® PP 57MNK40 can be used for furniture, housewares, pails & containers, toys, crates & boxes.

TYPICAL PROPERTY VALUES

Revision 20230511

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES (1)			
Melt Flow Rate (MFR)			
at 230°C and 2.16 kg	12	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES (2)			
Tensile Properties			
Strength @ Yield	24	MPa	ASTM D638
Elongation @ Yield	4	%	ASTM D638
Flexural Modulus (1% Secant)	1150	MPa	ASTM D790 A
Flexural Modulus (1% Secant)	1250	MPa	ASTM D790 B
Notched Izod Impact Strength at 23°C	115	J/m	ASTM D256
Notched Izod Impact Strength at -20°C	63	J/m	ASTM D256
Rockwell Hardness, R-Scale	80	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Point	148	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	90	°C	ASTM D648

(1) Typical values, not to be construed as specific limits

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Barrel temperature range: 200 - 250°C Mold Shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions. Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

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