SABIC® PP 48MK40

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP 48MK40 is specially developed for producing injection molded articles. This grade contains nucleating and antistatic agents. It has medium flow properties, good impact resistance (even at low temperature) and balanced stiffness.

TYPICAL APPLICATIONS

SABIC® PP 48MK40 can be used for general purpose injection molding, pails and containers, housewares, furniture, crates and boxes.

TYPICAL PROPERTY VALUES

Revision 20210506

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES (1)			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	16	g/10 min	ASTM D1238
Density			
at 23°C	905	kg/m³	ASTM D792
MECHANICAL PROPERTIES (2)			
Tensile Properties			
Tensile Strength @ Yield	27	MPa	ASTM D638
Tensile Elongation @ Yield	7	%	ASTM D638
Flexural Modulus (1% Secant)	1400	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	93	J/m	ASTM D256
notched, at -20°C	55	J/m	ASTM D256
Rockwell Hardness, R-Scale	95	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	149	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	107	°C	ASTM D648

(1) Typical values, not to be construed as specific limits
(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for 48MK40 are:

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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