

SABIC® PP 513MN40

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP 513MN40 is a controlled rheology PP grade with very high fluidity. It contains an antistatic agent and especially developed for producing injection molded articles. This grade has a good impact resistance even at low temperature.

TYPICAL APPLICATIONS

SABIC® PP 513MN40 can be used for general purpose thin-walled injection molding applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230°C and 2.16kg	70	g/10 min	ASTM D1238
DENSITY			
at 23°C	905	kg/m ³	ASTM D792
MECHANICAL PROPERTIES⁽¹⁾			
Tensile Properties			
Strength @ Yield	24	MPa	ASTM D 638
Elongation @ Yield	6	%	ASTM D 638
Flexural Modulus (1% Secant)	1200	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	65	J/m	ASTM D256
notched, at -20°C	30	J/m	ASTM D256
Rockwell Hardness, R-Scale	94	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	150	°C	ASTM D1525
Heat deflection temperature			
at 455kPa	92	°C	ASTM D648

(1) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for 513MN40 are:

Barrel temperature range: 200 - 245°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.