



SABIC[®] PP 413MNK45

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC[®] PP 413MNK45 is a controlled rheology PP grade with a very high fluidity. It is provided with an antistatic and nucleating agent package. This grade has a good impact – stiffness balance.

TYPICAL APPLICATIONS

SABIC[®] PP 413MNK45 can be used for housewares and thin-walled packaging containers (e.g. margarine tubs, yoghurt pots, ice cream containers, etc.).

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	MPa	ASTM D638
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Properties			
Strength @ Yield	28	MPa	ASTM D 638
Elongation @ Yield	5	%	ASTM D 638
Flexural Modulus (1% Secant)	1550	MPa	ASTM D790 A
Izod Impact Strength			
notched, at 23°C	65	J/m	ASTM D256
notched, at -20°C	35	J/m	ASTM D256
Rockwell Hardness, R-Scale	94	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Temperature	150	°C	ASTM D1525
Heat deflection temperature			
455kPa	95	°C	ASTM D648

(1) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for 413MNK45 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.