



# SABIC<sup>®</sup> PP RA12MN40

PP RANDOM COPOLYMER

## DESCRIPTION

SABIC<sup>®</sup> PP RA12MN40 is a random copolymer medium ethylene modified, clarified and anti-static. It is typically used for injection moulding applications. Special characteristics are high stiffness, good transparency and high gloss. Typical applications are in housewares and thin walled packaging.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site

<http://www.SABIC.com>

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical / medical applications.

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com)) / IMDS 80775790

## TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	40	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>FORMULATION</b>			
<b>Anti static agent</b>	☑	-	-
<b>Clarified</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(1)</sup>	27	MPa	ISO 527-2 1A
strain at yield	13	%	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	1000	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	4.0	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	2.0	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 0 °C	2.0	kJ/m <sup>2</sup>	ISO 179/1eA
at 23 °C	5.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Hardness Shore D</b>	62	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature <sup>(3)</sup></b>			
at 1.80 MPa (HDT/A)	50	°C	ISO 75
at 0.45 MPa (HDT/B)	75	°C	ISO 75
<b>Vicat Softening Temperature <sup>(4)</sup></b>			
at 50 N (VST/B)	68	°C	ISO 306
at 10 N (VST/A)	126	°C	ISO 306



- (1) Speed of testing: 50 mm/min
- (2) Speed of testing: 1 mm/min
- (3) Flat wise ( testbar 80\*10\*4mm)
- (4) Temperature rate: 120°C/h

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