



## SABIC® PP 612MK46

### PP block copolymer for Injection moulding

#### Description:

This grade is especially developed for pails and containers. Special characteristics of this grade are a high crystallisation temperature, very high flow in combination with medium impact performance and neutral taste & odor performance. This enables outstanding processability, very easy mould filling and short cycle times. SABIC® PP 612MK46 is formulated with a combined processing and antistatic additive package. It is also available in a general purpose additive package.

#### Health, Safety and Food Contact regulations:

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

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

#### Typical values

Properties	Unit (SI)	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 230 °C and 2.16 kg	dg/min	<b>33</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ISO 1183
<b>Formulation</b>			
<b>Anti static agent</b>	-	<b>Yes</b>	-
<b>Nucleating agent</b>	-	<b>Yes</b>	-
<b>Mechanical properties</b>			
<b>Tensile test</b>			ISO 527-2 1A
stress at yield <sup>1)</sup>	MPa	<b>25</b>	
strain at yield <sup>1)</sup>	%	<b>4</b>	
tensile modulus <sup>2)</sup>	MPa	<b>1400</b>	
<b>Izod impact notched</b>			ISO 180/1A
at 23 °C	kJ/m <sup>2</sup>	<b>9</b>	
at 0 °C	kJ/m <sup>2</sup>	<b>7</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>5</b>	
<b>Charpy impact notched</b>			ISO 179/1eA
at 23 °C	kJ/m <sup>2</sup>	<b>10</b>	
at 0 °C	kJ/m <sup>2</sup>	<b>8</b>	
at -20 °C	kJ/m <sup>2</sup>	<b>6</b>	
<b>Hardness Shore D</b>	-	<b>62</b>	ISO 868
<b>Thermal properties</b>			
<b>Heat deflection temperature</b> <sup>3)</sup>			ISO 75
at 1.80 MPa (HDT/A)	°C	<b>55</b>	
at 0.45 MPa (HDT/B)	°C	<b>90</b>	
<b>Vicat softening temperature</b> <sup>4)</sup>			ISO 306
at 10 N (VST/A)	°C	<b>149</b>	
at 50 N (VST/B)	°C	<b>76</b>	

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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**Quality:**

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

**Storage and handling:**

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

**Disclaimer.** The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC Europe as referred to herein means any legal entity belonging to the SABIC Europe group of companies.