



## SABIC® PP 412MN40

### PP block copolymer for Injection moulding

#### Description:

A multi-purpose grade with very good flow properties, high stiffness and good impact strength. The material has a very low tendency to warp and is perfectly suited for the production of thin-walled articles. Cycle times can be very short. It is formulated with a combined processing and antistatic additive package. This grade is widely applied in thin-walled technical injection moulded articles and thin-walled containers, in particular where dimensional stability is important.

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

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC-europe.com>

#### 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 at 230 °C and 5 kg	g/10 min g/10 min	<b>37</b> <b>170</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>905</b>	ISO 1183
<b>Mechanical properties</b>			
<b>Tensile test</b> stress at yield stress at break strain at break	MPa MPa %	<b>26</b> <b>20</b> <b>&gt;50</b>	ISO 527
<b>Flexural test</b> Flexural modulus	MPa	<b>1550</b>	ASTM D 790
<b>Izod impact notched</b> at 23 °C at 0 °C at -20 °C	kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	<b>6.0</b> <b>4.0</b> <b>3.0</b>	ISO 180/4A
<b>Charpy impact notched</b> at 23 °C at 0 °C at -20 °C	kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	<b>4.5</b> <b>3.5</b> <b>3.0</b>	ISO 179
<b>Hardness Shore D</b>	-	<b>67</b>	ISO 868
<b>Thermal properties</b>			
<b>Heat deflection temperature</b> at 1.80 MPa (HDT/A) at 0.45 MPa (HDT/B)	°C °C	<b>53</b> <b>89</b>	ISO 75/A ISO 75/B
<b>Vicat softening temperature</b> at 10 N (VST/A) at 50 N (VST/B)	°C °C	<b>147</b> <b>74</b>	ISO 306/A ISO 306/B

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