

**Product Texts**

SABIC® PP 412MN40 is a multi-purpose grade with good flow properties, combining stiffness and good balance in impact strength. The material has a very low tendency for warpage and is typically used for the production of thin wall packaging 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 wall 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.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

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>1300</b>	MPa	ISO 527
Yield stress	<b>25</b>	MPa	ISO 527
Yield strain	<b>5</b>	%	ISO 527
Charpy notched impact strength, +23°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength	<b>5</b>	kJ/m <sup>2</sup>	ISO 180/1A
Shore D hardness	<b>63</b>	-	ISO 7619-1

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>55</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>85</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>150</b>	°C	ISO 306
Vicat softening temperature, B	<b>75</b>	°C	ISO 306

**Characteristics****Processing**

Injection Molding