

**SABIC® PPcompound 5405**

PP

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

SABIC® PPcompound 5405 is a modified polypropylene compound. Material properties include excellent flow, high impact and good stiffness. The material exhibits excellent esthetical behaviour with very low tiger stripes visibility. Typical applications include automotive exterior parts such as large complex shaped bumpers and trims which can be painted, partially painted or unpainted. SABIC® PPcompound 5405 is a designated automotive grade. IMDS ID: 16484475

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>20</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>2.16</b>	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>1150</b>	MPa	ISO 527
Yield stress	<b>20</b>	MPa	ISO 527
Stress at break	<b>18</b>	MPa	ISO 527
Strain at break	<b>&gt;50</b>	%	ISO 527
Flexural modulus, 23°C	<b>1200</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength	<b>8</b>	kJ/m <sup>2</sup>	ISO 180/1A
Shore D hardness	<b>55</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, 0.45 MPa	<b>95</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>140</b>	°C	ISO 306

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>905</b>	kg/m <sup>3</sup>	ISO 1183