

SABIC SABIC® PP 5405 PP (Europe)

Categories: [Polymer](#); [Thermoplastic](#); [Polypropylene \(PP\)](#)


Material SABIC® PPcompound 5405 is a modified polypropylene compound. Material properties include excellent flow, high impact and good stiffness.


Notes: 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

Information provided by SABIC

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	Injection molded sample ISO527-1A; ISO 1183
Filler Content	2.5 %	2.5 %	SABIC method
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	Injection molded plaque 65x65x3.2mm; SABIC method
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	ISO 527/1A
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527/1A
Elongation at Break	300 %	300 %	ISO 527/1A
Tensile Modulus	1.15 GPa	167 ksi	ISO 527/1A
Flexural Modulus	1.20 GPa	174 ksi	ISO 178/1A
Izod Impact, Notched (ISO)	NB	NB	ISO 180/1A
	8.00 kJ/m ² @Temperature -20.0 °C	3.81 ft-lb/in ² @Temperature -4.00 °F	N.B.: No Break; ISO 180/1A
	10.0 kJ/m ² @Temperature 0.000 °C	4.76 ft-lb/in ² @Temperature 32.0 °F	N.B.: No Break; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear 	90.0 µm/m-°C @Temperature -30.0 - 30.0 °C	50.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
	125 µm/m-°C @Temperature 23.0 - 80.0 °C	69.4 µin/in-°F @Temperature 73.4 - 176 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ISO 75

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.