



SABIC® PPcompound 15T1020

PP compound MF for Automotive injection moulding

Description:

SABIC® PPcompound 15T1020 is a 20% talc-filled polypropylene homopolymer. The materials high modulus and good thermal stabilization makes it suited for applications under the bonnet such as heating, ventilation and air conditioning housings.

SABIC® PPcompound 15T1020 is a designated automotive grade.

IMDS ID: 16486973

Typical values

Revision 20121112

Properties	Unit (Si)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	dg/min	7	ISO 1133
Density	kg/m ³	1040	ISO 1183 ASTM D 696
Coeff. of linear thermal expansion 1) 23 °C to 80 °C	µm/mK	100	
-30 °C to 30 °C	µm/mK	50	
Mould shrinkage 1) 24 hours after injection moulding	%	1.2	SABIC method
Mechanical properties 1)			
Tensile test 2) stress at yield	MPa	37	ISO 527
stress at break	MPa	29	
strain at break	%	50	
Flexural test 3) Flexural modulus	MPa	2700	ASTM D 790
Izod impact notched 4) at 23 °C	kJ/m ²	3.4	ISO 180/4A
at 0 °C	kJ/m ²	2.7	
at -20 °C	kJ/m ²	2.2	
Charpy impact notched 5) at 23 °C	kJ/m ²	3.4	ISO 179/1eA
Charpy impact unnotched at -40 °C	kJ/m ²	14	ISO 179/1eU
Hardness Shore D	-	75	ISO 868
Thermal properties 1)			
Heat deflection temperature at 0.45 MPa (HDT/B)	°C	120	ISO 75/B
Vicat softening temperature at 10 N (VST/A)	°C	150	ISO 306/A

1) All measurements on injection molded samples.

2) Speed of testing: 50 mm/min; Specimen ISO 527-5, 3.2 mm

3) 3-point loading

4) N.B.: No Break

5) U-shaped notch; N.B.: No Break



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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.

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