

SABIC[®] PPCOMPOUND 5521

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC[®] PPcompound 5521 is a mineral filled, impact modified polypropylene TPO. This material combines good flow with exterior automotive weathering stability. The general purpose black color product is offered without weathering stability for good paintability. The weatherable product was originally designed for unpainted automotive exterior bumper cap and step pad applications where high flexibility is required.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt flow rate (MFR)			
at 230 °C and 2.16 kg	19	dg/min	ISO 1133
Density ⁽¹⁾	900	kg/m ³	ISO 1183
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	-	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	850	MPa	ISO 527/1A
stress at yield	18	MPa	ISO 527/1A
stress at break	13	MPa	ISO 527/1A
strain at break	160	%	ISO 527/1A
Flexural test			
Flexural modulus	890	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	49	kJ/m ²	ISO 180/1A
at 0 °C	11	kJ/m ²	ISO 180/1A
at -20 °C	9	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	51	°C	ISO 75
at 0.45 MPa (HDT/B)	86	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	129	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

QUALITY

SABIC 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

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

