

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.

IMDS ID: 163257209

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.