

SABIC® PPCOMPOUND 8620

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 8620 is a mineral filled, impact modified polypropylene TPO. This material combines scratch resistance and good flow with exterior automotive weathering stability. It was originally designed for painted or unpainted automotive bumper fascia applications where a combination of high stiffness and cold temperature ductility is required.

IMDS ID: 1342208711

TYPICAL PROPERTY VALUES

Revision 20260316

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	23	dg/min	ISO 1133
Density ⁽¹⁾	1030	kg/m³	ISO 1183
Filler content	18	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.7	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	1680	MPa	ISO 527/1A
stress at yield	17	MPa	ISO 527/1A
stress at break	11	MPa	ISO 527/1A
strain at break	39	%	ISO 527/1A
Flexural test			
Flexural modulus	1740	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	49	kJ/m²	ISO 180/1A
at 0 °C	25	kJ/m²	ISO 180/1A
at -20 °C	6	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	56	°C	ISO 75
at 0.45 MPa (HDT/B)	100	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	41	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A
(2) Injection molded plaque 65x65x3.2mm
(3) N.B.: No Break

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.

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