



SABIC® PPCOMPOUND 8650U

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 8650U an elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material combines excellent stiffness and high impact with low density. The combination makes the material very suitable for thin wall bumper applications. This grade is UV stabilized and can be used for unpainted applications. This grade will also be available in an open concept (8650MB1 & 8650MB2) and for painted applications (8650).

SABIC® PPcompound 8650U is a designated automotive grade.

IMDS ID: 515964503

TYPICAL PROPERTY VALUES

Revision 20211208

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
Density ⁽¹⁾	970	kg/m³	ISO 1183
Filler content	12	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.7 – 0.8	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1500	MPa	ISO 527/1A
stress at yield	18	MPa	ISO 527/1A
stress at break	15	MPa	ISO 527/1A
strain at break	60	%	ISO 527/1A
Flexural test			
Flexural modulus	1550	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	N.B.	kJ/m²	ISO 180/1A
at 0 °C	15	kJ/m²	ISO 180/1A
at -20 °C	8	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	-	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	70	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2 mm

(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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