

SABIC® PP COMPOUND 8659U

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PP compound 8659U is a development grade, elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material has been designed to combine a good stiffness and excellent impact performance with good processing and surface esthetics. This grade is UV stabilised and is suitable for unpainted applications.

SABIC® PP compound 8659U is a designated automotive grade.

IMDS ID:

TYPICAL PROPERTY VALUES

Revision 20211208

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	35	dg/min	ISO 1133
Density ⁽¹⁾	980	kg/m ³	ISO 1183
Filler content	12	%	SABIC method
Mould shrinkage			
24 hours after injection moulding	0.6	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1550	MPa	ISO 527/1A
stress at yield	18	MPa	ISO 527/1A
stress at break	13	MPa	ISO 527/1A
strain at break	80	%	ISO 527/1A
Flexural test			
Flexural modulus	1600	MPa	ISO 178/1A
Izod impact notched ⁽²⁾			
at 23 °C	40	kJ/m ²	ISO 180/1A
at 0 °C	30	kJ/m ²	ISO 180/1A
at -20 °C	8.5	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	-	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	-	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) 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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