

SABIC® PPCOMPOUND 7175U

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 7175U is an elastomer-modified mineral filled Polypropylene for automotive exterior applications. The material is UV stabilized.

SABIC® PPcompound 7175U is a designated automotive grade.

IMDS ID: 455644223

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	17	dg/min	ISO 1133
Density ⁽¹⁾	970	kg/m³	ISO 1183
Filler content	10	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.9	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1250	MPa	ISO 527/1A
stress at yield	19	MPa	ISO 527/1A
stress at break	14	MPa	ISO 527/1A
strain at break	80	%	ISO 527/1A
Flexural test			
Flexural modulus	1300	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	60	kJ/m²	ISO 180/1A
at 0 °C	50	kJ/m²	ISO 180/1A
at -20 °C	5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	100	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	85	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

