

SABIC® PPCOMPOUND 1650U

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

'SABIC® PPcompound 1650U is a high impact polypropylene with good impact resistance, high flow and is very resistant to UV. Because of this unique and well balanced property profile the material is most suited for the building and construction market.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	14	dg/min	ISO 1133
Density ⁽¹⁾	915	kg/m³	ISO 1183
Filler content	2.5	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.4	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	990	MPa	ISO 527/1A
stress at yield	19	MPa	ISO 527/1A
stress at break	16	MPa	ISO 527/1A
strain at break	350	%	ISO 527/1A
Flexural test			
Flexural modulus	1000	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	NB	kJ/m²	ISO 180/1A
at 0 °C		kJ/m²	ISO 180/1A
at -20 °C		kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	84	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	131	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

