

SABIC® PPCOMPOUND 1820

PP COMPOUND MF

DESCRIPTION

SABIC® PPcompound 1820 is an elastomer-modified mineral filled Polypropylene. This material has been designed to combine a good mechanical performance profile with good processing.

IMDS ID: 494207829

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	30	dg/min	ISO 1133
Density ⁽¹⁾	1045	kg/m³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.0	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	2700	MPa	ISO 527/1A
stress at yield	24.5	MPa	ISO 527/1A
stress at break	20	MPa	ISO 527/1A
strain at break	10	%	ISO 527/1A
Flexural test			
Flexural modulus	2600	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	4	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 1.80 MPa (HDT/A)	-	°C	ISO 75
at 0.45 MPa (HDT/B)	69	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	90	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

