

SABIC[®] PPCOMPOUND 8510E

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC[®] PPcompound 8510E is a mineral filled elastomer-modified polypropylene for automotive painted bumper and painted exterior cladding applications. The material combines good flow with high impact, stiffness and low CLTE. The stiffness level of this material is such that thin wall applications are possible. This grade is emission optimized.

SABIC[®] PPcompound 8510E is a designated automotive grade.

IMDS ID: 588401960

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt flow rate (MFR)			
at 230 °C and 2.16 kg	22	dg/min	ISO 1133
Density ⁽¹⁾	1050	kg/m ³	ISO 1183
Filler content	22	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.55	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	2100	MPa	ISO 527/1A
stress at yield	20	MPa	ISO 527/1A
stress at break	14	MPa	ISO 527/1A
strain at break	20	%	ISO 527/1A
Flexural test			
Flexural modulus	2200	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	N.B.	kJ/m ²	ISO 180/1A
at 0 °C	15	kJ/m ²	ISO 180/1A
at -20 °C	7	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	-	°C	ISO 75
at 0.45 MPa (HDT/B)	110	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	45	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break