

SABIC® PPCOMPOUND 5450/10

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 5450/10 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.

5450/10 is a designated automotive grade.

IMDS:1001596344

TYPICAL PROPERTY VALUES

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⁾	970	kg/m ³	ISO 1183
Filler content	11	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.8	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1350	MPa	ISO 527/1A
stress at yield	18	MPa	ISO 527/1A
stress at break	12	MPa	ISO 527/1A
strain at break	60	%	ISO 527/1A
Flexural test			
Flexural modulus	1475	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	N.B	kJ/m ²	ISO 180/1A
at 0 °C	N.B	kJ/m ²	ISO 180/1A
at -20 °C	7	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	94	°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) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break