

SABIC® PPCOMPOUND 5450

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPCOMPOUND 5450 is a low density modified polypropylene. Material properties include very high flow, high impact and high stiffness with low shrinkage and CLTE and good process-ability. The material exhibits good esthetical behaviour with low tiger stripes visibility. Typical applications include automotive exterior parts such as zero gap automotive bumper applications with complex and large shapes. It can be used in painted and unpainted applications with UV stabilization added on demand.

SABIC® PPCOMPOUND 5450 is a designated automotive grade.

IMDS ID: 16484735

TYPICAL PROPERTY VALUES

Revision 20260217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	20	dg/min	ISO 1133
Density ⁽¹⁾	930	kg/m³	ISO 1183
Filler content	5	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.7	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1050	MPa	ISO 527/1A
stress at yield	20	MPa	ISO 527/1A
stress at break	22	MPa	ISO 527/1A
strain at break	500	%	ISO 527/1A
Flexural test			
Flexural modulus	1000	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	N.B.	kJ/m²	ISO 180/1A
at 0 °C	N.B.	kJ/m²	ISO 180/1A
at -20 °C	N.B.	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	N.B.	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at -40 °C	N.B.	kJ/m²	ISO 179/1eU
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	75	µm/mK	ISO 11359-2



- (1) Injection molded sample ISO527-1A
(2) Injection molded plaque 65x65x3.2mm
(3) N.B.: No Break

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

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