

SABIC[®] PPCOMPOUND 5040

PP COMPOUND IMPACT MODIFIED

DESCRIPTION

SABIC[®] PPcompound 5040 is an impact-modified Polypropylene for automotive interior applications. This material is emission optimized and has been designed to combine a good performance profile with good processing.

SABIC[®] PPcompound 5040 is a designated automotive grade.

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⁾	905	kg/m ³	ISO 1183
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.4	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	1450	MPa	ISO 527/1A
stress at yield	25	MPa	ISO 527/1A
stress at break	16	MPa	ISO 527/1A
strain at break	25	%	ISO 527/1A
Flexural test			
Flexural modulus	1500	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	8	kJ/m ²	ISO 180/1A
at 0 °C	6	kJ/m ²	ISO 180/1A
at -20 °C	4	kJ/m ²	ISO 180/1A
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	135	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

