

SABIC® PPCOMPOUND 7727

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPCOMPOUND 7727 is a mineral filled, impact modified polypropylene TPO. This material combines impact resistance, heat stability, and is used in injection molded applications.

IMDS ID: 209708556

TYPICAL PROPERTY VALUES

Revision 20260317

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	23	dg/min	ISO 1133
Density ⁽¹⁾	990	kg/m³	ISO 1183
Filler content	14	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	1960	MPa	ISO 527/1A
stress at yield	25	MPa	ISO 527/1A
stress at break	18	MPa	ISO 527/1A
strain at break	26.7	%	ISO 527/1A
Flexural test			
Flexural modulus	2050	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	6.4	kJ/m²	ISO 180/1A
at 0 °C	4	kJ/m²	ISO 180/1A
at -20 °C	2.6	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	62	°C	ISO 75
at 0.45 MPa (HDT/B)	114	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	56	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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CHEMISTRY THAT MATTERS™



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