SABIC® PPCOMPOUND 1240D

PP COMPOUND MINERAL FILLED

DESCRIPTION

SABIC® PPcompound 1240D is a mineral filled Polypropylene for dishcare applications. Material properties include an excellent stiffness and high thermal stabilization. This material has been designed to combine a good heat aging performance with good surface aesthetics making it suitable for visible dishwasher's interior parts.

TYPICAL PROPERTY VALUES

Revision 20230703

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)	1250	kg/m³	ISO 1183
Filler content	40	%	SABIC method
Mould shrinkage (2)			
24 hours after injection moulding	0.95	%	SABIC method
MECHANICAL PROPERTIES (1)			
Tensile test			
Tensile modulus	4500	MPa	ISO 527/1A
Stress at yield	31.7	MPa	ISO 527/1A
Stress at break	32	MPa	ISO 527/1A
Strain at yield	2.2	%	ISO 527/1A
Strain at break	2.3	%	ISO 527/1A
Flexural test			
Flexural modulus	5000	MPa	ISO 178/1A
Izod impact notched (3)			
At 23 °C	2	kJ/m²	ISO 180/1A
At 0 °C	1.8	kJ/m²	ISO 180/1A
At -20 °C	1.6	kJ/m²	ISO 180/1A
THERMAL PROPERTIES (1)			
Heat deflection temperature			
At 1.80 MPa (HDT/A)	130	°C	ISO 75
At 0.45 MPa (HDT/B)	85	°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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