

SABIC® PPCOMPOUND G3225UX

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

SABIC®PPcompound G3225UX is a 25% short glass fiber reinforced Polypropylene for structural applications. It offers an excellent resistance to UV. The base material is a PP homopolymer. The glass fibres are chemically coupled to the PP matrix. It is developed for injection molded applications. This material has been designed to combine a good performance profile with good processing

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	3	dg/min	ISO 1133
Density ⁽¹⁾	1090	kg/m³	ISO 1183
Filler content	25	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.75	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	6000	MPa	ISO 527/1A
stress at break	75	MPa	ISO 527/1A
strain at break	3	%	ISO 527/1A
Flexural test			
Flexural modulus	6300	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	7.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	145	°C	ISO 75
at 0.45 MPa (HDT/B)	160	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	60	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

