

SABIC® SABITAL™ 90GV10

POLYOXYMETHYLENE COMPOUNDING

DESCRIPTION

SABITAL™ 90GV10 is POM copolymer compounded with glass fibers for injection molding applications, it is reinforced with ca. 10% glass fibers for application requiring high stiffness, strength and thermal property.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES ⁽¹⁾			
Density	1480	kg/m ³	ISO 1183
Melt volume rate (MVR)	4.5	cm ³ /10 min	ISO 1133
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile modulus (1mm/min)	4000	MPa	ISO 527-2 1A
Tensile stress at break (5mm/min)	90	MPa	ISO 527-2 1A
Tensile strain at break (5mm/min)	3.5	%	ISO 527-2 1A
Flexural modulus (23°C)	4000	MPa	ISO 178
Charpy impact strength @ 23°C	35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength @ 23°C	6.0	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES ⁽¹⁾			
Melting temperature (10 °C/min)	166	°C	ISO 11357-1/-3
Deflection temperature under load DTUL (@1.8 MPa)	154	°C	ISO 75-1&2
Coeff.of linear therm. expansion (parallel)	0.6	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	1.2	E-4/°C	ISO 11359-2

(1) Typical values; not to be construed as specification limits.