

# SABIC® SABITAL™ 90GV20

POLYOXYMETHYLENE COMPOUNDING

## DESCRIPTION

SABITAL™ 90GV20 is POM copolymer compounded with glass fibers for injection molding applications, it is reinforced with ca. 20% glass fibers for application requiring high stiffness, strength and thermal property.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>PHYSICAL PROPERTIES <sup>(1)</sup></b>			
Density	1570	kg/m <sup>3</sup>	ISO 1183
Melt volume rate (MVR)	2.5	cm <sup>3</sup> /10 min	ISO 1133
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
Tensile modulus (1mm/min)	7000	MPa	ISO 527-2 1A
Tensile stress at break (5mm/min)	110	MPa	ISO 527-2 1A
Tensile strain at break (5mm/min)	2.5	%	ISO 527-2 1A
Flexural modulus (23°C)	6500	MPa	ISO 178
Charpy impact strength @ 23°C	35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength @ 23°C	6.7	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES <sup>(1)</sup></b>			
Melting temperature (10 °C/min)	166	°C	ISO 11357-1/-3
Deflection temperature under load DTUL (@1.8 MPa)	158	°C	ISO 75-1&2
Coeff.of linear therm. expansion (parallel)	0.5	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.