

Product Texts

SABIC® PPcompound G3220A is a 20% short glass fiber reinforced Polypropylene for under-the-hood and structural applications. The base material is a PP homopolymer. The glass fibres are chemically coupled to the PP matrix. This material has been designed to combine a good performance profile with fast processing. SABIC® PPcompound G3220A is a designated automotive grade. IMDS ID: 209767996

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4900	MPa	ISO 527
Stress at break	80	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus, 23°C	4500	MPa	ISO 178
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	5380	MPa	ASTM D 638
Tensile Strength at Break	87	MPa	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	4210	MPa	ASTM D 790

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	150	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	161	°C	ISO 75-1/-2
Vicat softening temperature, A	163	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	160	°C	ASTM D 648
DTUL @ 264 psi	151	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1040	kg/m ³	ISO 1183
Density	1050	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	210 - 270	°C	-
Mold temperature	15 - 60	°C	-
Zone 1	190 - 230	°C	-
Zone 2	200 - 250	°C	-
Zone 3	210 - 270	°C	-
Nozzle temperature	210 - 270	°C	-
Back pressure	1 - 1.5	MPa	-

Characteristics**Features**

Homopolymer