

SABIC® G3230AE

SABIC® PPcompound G3230AE is a 30% short glass fiber reinforced Polypropylene for under-the-hood and structural applications. The base material is a PP homopolymer, optimized for low emission values. 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 G3230AE is a designated automotive grade. IMDS ID: 325273910
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	Injection molded sample ISO527-1A; ISO 1183
Filler Content	30 %	30 %	SABIC method
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Injection molded plaque 65x65x3.2mm; SABIC method

Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa	14100 psi	ISO 527/1A
Elongation at Break	3.7 %	3.7 %	ISO 527/1A
Tensile Modulus	6.50 GPa	943 ksi	ISO 527/1A
Flexural Modulus	6.30 GPa	914 ksi	ISO 178/1A
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	N.B.: No Break; ISO 180/1A
Charpy Impact Unnotched	5.30 J/cm ²	25.2 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 µm/m-°C @Temperature 23.0 - 80.0 °C	17.2 µin/in-°F @Temperature 73.4 - 176 °F	ASTM D696
	32.0 µm/m-°C @Temperature -30.0 - 100 °C	17.8 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2
	33.0 µm/m-°C @Temperature -30.0 - 30.0 °C	18.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696

Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	ISO 75
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