

SABIC® G3230X

SABIC® PPcompound G3230X is a 30% short glass fiber reinforced Polypropylene for under-the-hood and structural applications. The base material is a PP homopolymer and is available in standard black. The glass fibres are chemically coupled to the PP matrix. This material has been designed to have ultra high heat resistance. SABIC® PPcompound G3230X is a designated automotive grade. IMDS ID: 430974537
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in³	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	88.0 MPa	12800 psi	ISO 527/1A

Elongation at Break	3.3 %	3.3 %	ISO 527/1A
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Tensile Modulus	6.50 GPa	943 ksi	ISO 527/1A
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Flexural Modulus	6.60 GPa	957 ksi	ISO 178/1A
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Izod Impact, Notched (ISO)	8.10 kJ/m²	3.85 ft-lb/in²	ISO 180/1A
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Charpy Impact, Notched	1.20 J/cm²	5.71 ft-lb/in²	ISO 179/1eA
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Thermal Properties	Metric	English	Comments
CTE, linear	39.0 µm/m-°C @Temperature -30.0 - 100 °C	21.7 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2

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