

SABIC® G3135X

SABIC® PPcompound G3135X is a 35% short glass fiber reinforced Polypropylene. This material has been designed for high stiffness, high impact, high heat resistance and chemical resistance. The glass fibres are chemically coupled to the PP matrix. Typical application of this material would include air inlet manifolds. The material is available in standard black. SABIC® PPcompound G3135X is a designated automotive grade. IMDS ID: 136528620
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	SABIC method
Melt Flow	1.2 g/10 min @Load 2.16 kg, Temperature 230 °C	1.2 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	107 MPa	15500 psi	ISO 527/1A
Elongation at Break	4.0 %	4.0 %	ISO 527/1A
Tensile Modulus	7.70 GPa	1120 ksi	ISO 527/1A
	7.70 GPa	1120 ksi	ISO 527/1A
	4.30 GPa @Temperature 80.0 °C	624 ksi @Temperature 176 °F	ISO 527/1A
Flexural Modulus	8.10 GPa	1170 ksi	ISO 178
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	306 °F	ISO 75