

SABIC Innovative Plastics SABIC PPCOMPOUND 5310 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound 5310 is a mineral filled, impact modified polypropylene TPO. This material combines scratch resistance and heat stability with exterior automotive weathering stability. The IMDS ID is 209727767.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-5310-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM D792
Density	0.960 g/cc	0.0347 lb/in ³	ISO 1183
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 230 °C	19 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.0 MPa	2030 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	21.0 MPa	3050 psi	50 mm/min; ISO 527
Elongation at Break	59.7 %	59.7 %	50 mm/min; ISO 527
Elongation at Yield	5.4 %	5.4 %	50 mm/min; ISO 527
Tensile Modulus	1.31 GPa	190 ksi	1 mm/min; ISO 527
Flexural Modulus	1.31 GPa	190 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched (ISO)	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	3.00 kJ/m ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	1.70 J/cm ²	8.09 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	23.0 J @Temperature -30.0 °C	17.0 ft-lb @Temperature -22.0 °F	Instrumented Impact Energy @ peak, - 30°C @ 2.2 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
	@Temperature -30.0 - 100 $^\circ\text{C}$	@Temperature -22.0 - 212 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	162 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	90.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
	@Temperature -30.0 - 100 $^\circ\text{C}$	@Temperature -22.0 - 212 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	92.0 $^\circ\text{C}$	198 $^\circ\text{F}$	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 $^\circ\text{C}$	131 $^\circ\text{F}$	80*10*4mm, Cut; ISO 75-1&2
Vicat Softening Point	133 $^\circ\text{C}$	271 $^\circ\text{F}$	10N, 50 $^\circ\text{C}/\text{hr}$; ISO 306

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