

## SABIC Innovative Plastics SABIC PPCOMPOUND 9710 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABIC<sup>®</sup> PPcompound 9710 is a mineral filled, impact modified polypropylene TPO. This material combines high impact resistance, scratch resistance, and heat stability with interior automotive UV stability. This material can exhibit ductility at temperatures as low as 0 degrees C. The IMDS is 164207488.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-9710-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-9710-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	48 hrs @ 23 <sup>°</sup> C, flow; SABIC Method
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	48 hrs @ 23 <sup>°</sup> C, xflow; SABIC Method
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 <sup>°</sup> C	20 g/10 min @Load 4.76 lb, Temperature 446 <sup>°</sup> 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	20.0 MPa	2900 psi	50 mm/min; ISO 527
Elongation at Break	23.2 %	23.2 %	50 mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	50 mm/min; ISO 527
Tensile Modulus	1.92 GPa	278 ksi	1 mm/min; ISO 527
Flexural Modulus	2.02 GPa	293 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
	4.00 kJ/m <sup>2</sup> @Temperature -30.0 <sup>°</sup> C	1.90 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>°</sup> F	80*10*4mm, Cut; ISO 180/1A
	6.00 kJ/m <sup>2</sup> @Temperature 0.000 <sup>°</sup> C	2.86 ft-lb/in <sup>2</sup> @Temperature 32.0 <sup>°</sup> F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	0.300 J/cm <sup>Å</sup> ²	1.43 ft-lb/in <sup>Å</sup> ²	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	0.500 J/cm <sup>Å</sup> ²	2.38 ft-lb/in <sup>Å</sup> ²	80*10*4mm, Cut; ISO 179/1eA
	@Temperature 0.000 Å°C	@Temperature 32.0 Å°F	
Dart Drop, Total Energy	18.0 J	13.3 ft-lb	Instrumented Impact Energy @ peak, @ 6.6 m/s; ASTM D3763
	@Temperature 0.000 Å°C	@Temperature 32.0 Å°F	
	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak, -30Å°C @ 6.6 m/s; ASTM D3763
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 Åµm/m-Å°C	27.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -30.0 - 100 Å°C	@Temperature -22.0 - 212 Å°F	
CTE, linear, Transverse to Flow	147 Åµm/m-Å°C	81.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -30.0 - 100 Å°C	@Temperature -22.0 - 212 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	109 Å°C	228 Å°F	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	59.0 Å°C	138 Å°F	80*10*4mm, Cut; ISO 75-1&2
Vicat Softening Point	133 Å°C	271 Å°F	10N, 50Å°C/hr; ISO 306

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