

## SABIC Innovative Plastics SABIC PPCOMPOUND 8620A PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABIC<sup>®</sup> PPcompound 8620A is a mineral filled, impact modified polypropylene TPO. It was originally designed for painted automotive bumper fascia applications where a combination of good flow, high stiffness, and cold temperature ductility is required. The IMDS is 209747752.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-8620A-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-8620A-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	48 hrs @ 23 <sup>°</sup> C, flow; SABIC Method
	0.0050 cm/cm	0.0050 in/in	1 hr @ 80 <sup>°</sup> C, flow; SABIC Method
	0.0060 cm/cm	0.0060 in/in	30 min @ 120 <sup>°</sup> C, flow; SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	48 hrs @ 23 <sup>°</sup> C, xflow; SABIC Method
	0.0080 cm/cm	0.0080 in/in	1 hr @ 80 <sup>°</sup> C, xflow; SABIC Method
	0.0090 cm/cm	0.0090 in/in	30 min @ 120 <sup>°</sup> C, xflow; SABIC Method
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 230 <sup>°</sup> C	21 g/10 min @Load 4.76 lb, Temperature 446 <sup>°</sup> F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ISO 868
Tensile Strength at Break	12.0 MPa	1740 psi	Type I, 50 mm/min; ASTM D638
	13.0 MPa	1890 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	17.0 MPa	2470 psi	Type I, 50 mm/min; ASTM D638
	17.0 MPa	2470 psi	50 mm/min; ISO 527
Elongation at Break	41 %	41 %	50 mm/min; ISO 527
	100.8 %	100.8 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.8 %	3.8 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.66 GPa	241 ksi	1 mm/min; ISO 527
	1.89 GPa	274 ksi	50 mm/min; ASTM D638
Flexural Modulus	1.42 GPa	206 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.78 GPa	258 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	5.10 J/cm	9.55 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	NB	NB	63.5*12.7*3.2mm, Cut; ASTM D4812
Izod Impact, Notched (ISO)	47.0 kJ/m <sup>2</sup>	22.4 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	31.0 kJ/m <sup>2</sup>	14.8 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Dart Drop, Total Energy	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	3.20 J/cm <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	16.0 J	11.8 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
Dart Drop, Total Energy	@Temperature 23.0 °C	@Temperature 73.4 °F	
	17.0 J	12.5 ft-lb	Instrumented Impact Energy @ peak @ 2.2 m/s; ASTM D3763
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Dart Drop, Total Energy	21.0 J	15.5 ft-lb	Instrumented Impact Energy @ peak, - 30°C @ 2.2 m/s; ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 μm/m-°C	17.8 μin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	

Thermal Properties	Metric 1/2 Åµm/m-Å°C	English 5/8 Åµin/in-Å°F	Comments
CTE, linear, Transverse to Flow	@Temperature -30.0 - 100 Å°C	@Temperature -22.0 - 212 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	100 Å°C	212 Å°F	80*10*4mm, Cut; ISO 75-1&2
	99.0 Å°C	210 Å°F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	56.0 Å°C	133 Å°F	80*10*4mm, Cut; ISO 75-1&2
	53.0 Å°C	127 Å°F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	122 Å°C	252 Å°F	10N, 50Å°C/hr; ISO 306

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