

SABIC® 8611A

SABIC® PPcompound 8611A is a mineral filled, impact modified polypropylene TPO. It was originally designed for painted automotive bumper fascia applications where a combination of low density, good flow, high stiffness, and cold temperature ductility is required. IMDS ID: 482236460

Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ISO 1183

Linear Mold Shrinkage

0.0095 cm/cm

0.0095 in/in

Injection molded
plaque 65x65x3.2mm;
SABIC method

Melt Flow

34 g/10 min
@Load 2.16 kg,
Temperature 230 °C

34 g/10 min
@Load 4.76 lb,
Temperature 446 °F

Injection molded
sample ISO527-1A;
ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.0 MPa	1890 psi	ISO 527/1A

Tensile Strength, Yield

19.0 MPa

2760 psi

ISO 527/1A

Elongation at Break

100 %

100 %

ISO 527/1A

Tensile Modulus

1.65 GPa

239 ksi

ISO 527/1A

Flexural Modulus

1.76 GPa

255 ksi

ISO 178/1A

Izod Impact, Notched (ISO)

41.0 kJ/m²

19.5 ft-lb/in²

N.B.: No Break; ISO
180/1A

30.0 kJ/m²
@Temperature -20.0 °C

14.3 ft-lb/in²
@Temperature -4.00 °F

N.B.: No Break; ISO
180/1A

NB
@Temperature 0.000 °C

NB
@Temperature 32.0 °F

ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 µm/m-°C @Temperature -30.0 - 100 °C	27.2 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2

Deflection Temperature at 0.46 MPa (66 psi)

100 °C

212 °F

ISO 75

Deflection Temperature at 1.8 MPa (264 psi)

53.0 °C

127 °F

ISO 75