

**Product Texts**

SABIC® 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. IMDS ID: 209747752

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	12	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	1660	MPa	ISO 527
Yield stress	17	MPa	ISO 527
Yield strain	3.8	%	ISO 527
Stress at break	13	MPa	ISO 527
Strain at break	41	%	ISO 527
Flexural modulus, 23°C	1780	MPa	ISO 178
Charpy notched impact strength, +23°C	55	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength	6	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	1890	MPa	ASTM D 638
Tensile Strength at Yield	17	MPa	ASTM D 638
Tensile Strength at Break	12	MPa	ASTM D 638
Elongation at Yield	4.7	%	ASTM D 638
Elongation at Break	101	%	ASTM D 638
Flexural Modulus	1420	MPa	ASTM D 790
Shore D Hardness	54	-	ASTM D 2240

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	56	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	100	°C	ISO 75-1/-2
Vicat softening temperature, A	122	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	99	°C	ASTM D 648
DTUL @ 264 psi	53	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1030	kg/m <sup>3</sup>	ISO 1183
Density	1030	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	210 - 270	°C	-
Mold temperature	15 - 60	°C	-
Zone 1	190 - 230	°C	-
Zone 2	200 - 250	°C	-
Zone 3	210 - 270	°C	-
Nozzle temperature	210 - 270	°C	-
Back pressure	1 - 1.5	MPa	-

**Characteristics**

**Special Characteristics**

High impact or impact modified