SABIC® PPCOMPOUND 8611A

PP COMPOUND MINERAL FILLED IMPACT MODIFIED
REGION AMERICAS

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20211206

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	19	MPa	ISO 527
Tensile Stress, break, 50 mm/min, 1A	13	MPa	ISO 527
Tensile Strain, break, 50 mm/min	100	%	ISO 527
Tensile Modulus, 1 mm/min	1650	MPa	ISO 527
Flexural Modulus, 2 mm/min, 64mm span	1760	MPa	ISO 178
IMPACT			
Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s	22	J	ASTM D3763
Instrumented Impact Energy @ peak, -30°C @ 2.2 m/s	24	J	ASTM D3763
Izod Impact, notched, 23°C, 80*10*4mm, Cut	41	kJ/m²	ISO 180/1A
Izod Impact, notched, 0°C, 80*10*4mm, Cut	30	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	34	kJ/m²	ISO 179/1eA
Charpy Impact, notched, -30°C, 80*10*4mm, Cut	6	kJ/m²	ISO 179/1eA
THERMAL			
CLTE, -30C to 100°C, flow	49	µm/mK	ISO 11359-2
CLTE, -30C to 100°C, xflow	127	µm/mK	ISO 11359-2
HDT 0.45 MPa, 80*10*4mm, Cut	100	°C	ISO 75-1&2
HDT 1.8 MPa, 80*10*4mm, Cut	53	°C	ISO 75-1&2
PHYSICAL			
Specific Gravity	0.97	-	ASTM D792
Mold Shrinkage, 48 hrs @ 23°C, flow	0.55	%	SABIC method
Mold Shrinkage, 48 hrs @ 23°C, xflow	0.95	%	SABIC method
Mold Shrinkage, 1 hr @ 80°C, flow	0.6	%	SABIC method
Mold Shrinkage, 1 hr @ 80°C, xflow	1.05	%	SABIC method
Mold Shrinkage, 30 min @ 120°C, flow	0.71	%	SABIC method
Mold Shrinkage, 30 min @ 120°C, xflow	1.11	%	SABIC method
Density	0.96	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	34	g/10 min	ISO 1133
INJECTION MOLDING			
Drying Temperature	80 – 100	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	210 – 270	°C	
Nozzle Temperature	210 – 270	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	210 – 270	°C	
Middle - Zone 2 Temperature	200 – 250	°C	
Rear - Zone 1 Temperature	190 – 230	°C	
Mold Temperature	15 – 60	°C	
Back Pressure	1 – 1.5	MPa	

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

DISCLAIMER