SABIC® PPCOMPOUND 9710

PP COMPOUND MINERAL FILLED IMPACT MODIFIED
REGION AMERICAS

DESCRIPTION

SABIC® PPcompound 9710 is a elastomer-modified mineral filled Polypropylene for automotive interior applications. This material has been designed to combine a good performance profile with good processing.
IMDS ID: 882046066

TYPICAL PROPERTY VALUES

Revision 20211206

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	20	MPa	ISO 527
Tensile Stress, break, 50 mm/min, 1A	14	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3.5	%	ISO 527
Tensile Strain, break, 50 mm/min	23.2	%	ISO 527
Tensile Modulus, 1 mm/min	1920	MPa	ISO 527
Flexural Modulus, 2 mm/min, 64mm span	2020	MPa	ISO 178
IMPACT			
Instrumented Impact Energy @ peak, 23°C @ 6.6 m/s	19	J	ASTM D3763
Instrumented Impact Energy @ peak, 0°C @ 6.6 m/s	18	J	ASTM D3763
Instrumented Impact Energy @ peak, -30°C @ 6.6 m/s	19	J	ASTM D3763
Izod Impact, notched, 23°C, 80*10*4mm, Cut	18	kJ/m²	ISO 180/1A
Izod Impact, notched, 0°C, 80*10*4mm, Cut	6	kJ/m²	ISO 180/1A
Izod Impact, notched, -30°C, 80*10*4mm, Cut	4	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	18	kJ/m²	ISO 179/1eA
Charpy Impact, notched, 0°C, 80*10*4mm, Cut	5	kJ/m²	ISO 179/1eA
Charpy Impact, notched, -30°C, 80*10*4mm, Cut	3	kJ/m²	ISO 179/1eA
THERMAL			
CLTE, -30C to 100°C, flow	49	µm/mK	ISO 11359-2
CLTE, -30C to 100°C, xflow	147	µm/mK	ISO 11359-2
Vicat Softening 10N, 50°C/hr	133	°C	ISO 306
HDT 0.45 MPa, 80*10*4mm, Cut	109	°C	ISO 75-1&2
HDT 1.8 MPa, 80*10*4mm, Cut	59	°C	ISO 75-1&2
PHYSICAL			
Specific Gravity	1.04	-	ASTM D792
Mold Shrinkage, 48 hrs @ 23°C, flow	0.5	%	SABIC method
Mold Shrinkage, 48 hrs @ 23°C, xflow	0.9	%	SABIC method
Density	1.04	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	20	g/10 min	ISO 1133
INJECTION MOLDING			
Drying Temperature	80 – 100	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	210 – 270	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Nozzle Temperature	210 – 270	°C	
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