

SABIC® PPCOMPOUND 31T1010

PP COMPOUND MINERAL FILLED
REGION AMERICAS

DESCRIPTION

SABIC® PPcompound 31T1010 is a 10% talc-filled polypropylene copolymer for general purpose applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	23	MPa	ISO 527
Tensile Stress, break, 50 mm/min, 1A	14	MPa	ISO 527
Tensile Strain, break, 50 mm/min	51	%	ISO 527
Tensile Modulus, 1 mm/min	1620	MPa	ISO 527
Flexural Modulus, 2 mm/min, 64mm span	1700	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*3 +23°C	9	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*3 0°C	8	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*3 -20°C	6	kJ/m²	ISO 180/1A
THERMAL			
CLTE, -30C to 100°C, flow	84	µm/mK	ISO 11359-2
HDT 0.45 MPa, 80*10*4mm, Cut	107	°C	ISO 75-1&2
HDT 1.8 MPa, 80*10*4mm, Cut	58	°C	ISO 75-1&2
PHYSICAL			
Filler Content	10	%	ASTM D229
Mold Shrinkage, flow, 24 hrs	1.4	%	ASTM D955
Density	0.96	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	13	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	
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	

