SABIC® PPCOMPOUND 55T1040

PP COMPOUND MINERAL FILLED
REGION AMERICAS

DESCRIPTION

SABIC® PPcompound 55T1040 is a general purpose, talc filled, heat stabilized copolymer polypropylene compound. This compound exhibits very high impact and high rigidity, and is suitable for injection molding applications.

IMDS ID: 278629571

TYPICAL PROPERTY VALUES

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	%	ISO 527
Tensile Strain, break, 50 mm/min	10.8	%	ISO 527
Tensile Modulus, 1 mm/min	2450	MPa	ISO 527
Flexural Modulus, 2 mm/min, 64mm span	3270	MPa	ISO 178
IMPACT			
Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s	10	J	ASTM D3763
Izod Impact, notched, 23°C, 80*10*4mm, Cut	7	kJ/m²	ISO 180/1A
Izod Impact, notched, -30°C, 80*10*4mm, Cut	2	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	8	kJ/m²	ISO 179/1eA
Charpy Impact, notched, -30°C, 80*10*4mm, Cut	2	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening 10N, 50°C/hr	142	°C	ISO 306
HDT 0.45 MPa, 80*10*4mm, Cut	70	°C	ISO 75-1&2
HDT 1.8 MPa, 80*10*4mm, Cut	124	°C	ISO 75-1&2
PHYSICAL			
Specific Gravity	1.27	-	ASTM D792
Density	1.27	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	3	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	