

SABIC® PPcompound 19T1030

PP

Saudi Basic Industries Corporation (SABIC)

Product Texts

SABIC® PPcompound 19T1030 is a general purpose, talc filled, heat stabilized homopolymer polypropylene compound. This compound exhibits high flow and is suitable for injection molding applications. IMDS ID: 278628419.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	18.2	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4750	MPa	ISO 527
Yield stress	34	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	33	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus, 23°C	4100	MPa	ISO 178
Charpy notched impact strength, +23°C	1	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	1	kJ/m ²	ISO 179/1eA
Izod notched impact strength	1.85	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	80	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	131	°C	ISO 75-1/-2
Vicat softening temperature, A	157	°C	ISO 306

Other properties	Value	Unit	Test Standard
Density	1160	kg/m ³	ISO 1183
Density	1160	kg/m ³	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**Processing**

Injection Molding

Features

Homopolymer

Special Characteristics

Heat stabilized or stable to heat