

SABIC® PPcompound 55T1030

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Saudi Basic Industries Corporation (SABIC)

Product Texts

SABIC® PPcompound 55T1030 is a Polypropylene copolymer with 30% talcum. It is especially suited for applications that require an exceptional stiffness combined with a high impact resistance (even at low temperatures) like dashboard carriers and other dashboard components that are exposed to high temperatures. SABIC® PPcompound 55T1030 is a designated automotive grade. IMDS ID: 16160823

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	20	g/10min	ISO 1133
Temperature	230	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	24	MPa	ISO 527
Yield strain	3.4	%	ISO 527
Stress at break	18	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	1	kJ/m ²	ISO 179/1eA
Izod notched impact strength	3.5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2090	MPa	ASTM D 638
Tensile Strength at Yield	21	MPa	ASTM D 638
Tensile Strength at Break	16	MPa	ASTM D 638
Elongation at Yield	3.4	%	ASTM D 638
Elongation at Break	45.6	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Shore D Hardness	68	-	ASTM D 2240

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	64	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	120	°C	ISO 75-1/-2
Vicat softening temperature, A	150	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	114	°C	ASTM D 648
DTUL @ 264 psi	60	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1130	kg/m ³	ISO 1183
Density	1140	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

Features

Copolymer