

## SABIC® PPCOMPOUND 55T1030

PP COMPOUND MINERAL FILLED  
REGION AMERICAS

### DESCRIPTION

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

### TYPICAL PROPERTY VALUES

Revision 20260317

| PROPERTIES                                         | TYPICAL VALUES | UNITS | TEST METHODS |
|----------------------------------------------------|----------------|-------|--------------|
| <b>MECHANICAL</b>                                  |                |       |              |
| Tensile Stress, yld, Type I, 50 mm/min             | 21             | MPa   | ASTM D638    |
| Tensile Stress, brk, Type I, 50 mm/min             | 16             | MPa   | ASTM D638    |
| Tensile Strain, yld, Type I, 50 mm/min             | 3.4            | %     | ASTM D638    |
| Tensile Strain, brk, Type I, 50 mm/min             | 45.6           | %     | ASTM D638    |
| Tensile Modulus, 50 mm/min                         | 2090           | MPa   | ASTM D638    |
| Flexural Modulus, 1.3 mm/min, 50 mm span           | 2300           | MPa   | ASTM D790    |
| Tensile Stress, yield, 50 mm/min                   | 24             | MPa   | ISO 527      |
| Tensile Stress, break, 50 mm/min, 1A               | 18             | MPa   | ISO 527      |
| Tensile Strain, yield, 50 mm/min                   | 3.4            | %     | ISO 527      |
| Tensile Strain, break, 50 mm/min                   | 80             | %     | ISO 527      |
| Tensile Modulus, 1 mm/min                          | 2520           | MPa   | ISO 527      |
| Flexural Modulus, 2 mm/min, 64mm span              | 2810           | MPa   | ISO 178      |
| Hardness, Shore D                                  | 68             | -     | ISO 868      |
| <b>IMPACT</b>                                      |                |       |              |
| Izod Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut | 1068           | J/m   | ASTM D4812   |
| Izod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut   | 140            | J/m   | ASTM D256    |
| Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s  | 18             | J     | ASTM D3763   |
| Izod Impact, notched, 23°C, 80*10*4mm, Cut         | 13             | 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        | 3              | kJ/m² | ISO 180/1A   |
| Charpy Impact, notched, 23°C, 80*10*4mm, Cut       | 13             | kJ/m² | ISO 179/1eA  |
| Charpy Impact, notched, -30°C, 80*10*4mm, Cut      | 1              | kJ/m² | ISO 179/1eA  |
| <b>THERMAL</b>                                     |                |       |              |
| HDT, 0.45 MPa, 3.2 mm                              | 114            | °C    | ASTM D648    |
| HDT, 1.82 MPa, 3.2 mm                              | 60             | °C    | ASTM D648    |
| CLTE, -30C to 100°C, flow                          | 63             | µm/mK | ISO 11359-2  |
| CLTE, -30C to 100°C, xflow                         | 94             | µm/mK | ISO 11359-2  |
| Vicat Softening 10N, 50°C/hr                       | 150            | °C    | ISO 306      |
| HDT 0.45 MPa, 80*10*4mm, Cut                       | 120            | °C    | ISO 75-1&2   |
| HDT 1.8 MPa, 80*10*4mm, Cut                        | 64             | °C    | ISO 75-1&2   |

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CHEMISTRY THAT MATTERS™



| PROPERTIES                    | TYPICAL VALUES | UNITS             | TEST METHODS |
|-------------------------------|----------------|-------------------|--------------|
| <b>PHYSICAL</b>               |                |                   |              |
| Specific Gravity              | 1.14           | -                 | ASTM D792    |
| Density                       | 1.13           | g/cm <sup>3</sup> | ISO 1183     |
| Melt Flow Rate, 230°C/2.16 kg | 4              | g/10 min          | ISO 1133     |
| <b>INJECTION MOLDING</b>      |                |                   |              |
| 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               |              |

#### 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.

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