



# Sipchem PBT-R1-G0-011

## Polybutylene Terephthalate Resin

**Product description:** Sipchem PBT-R1-G0-011 is a Polybutylene Terephthalate resin, manufactured by Sipchem Chemical Company in The Kingdom of Saudi Arabia using an Inventa-Fischer Technology.

PBT-R1-G0-011 is a high viscosity neat PBT resin

**Applications:** Compounding

| Properties                                | Typical Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| <b>PHYSICAL</b>                           |               |                   |             |
| Density                                   | 1.31          | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Flow Rate (250°C/2.16kg)             | 11            | g/10 min          | ASTM D1238  |
| Intrinsic Viscosity                       | 1.25          | dL/gr             | ASTM D2857  |
| Carboxyl End Group                        | < 30          | meq/kg            | ISO 2114    |
| Colour (b*)                               | < 3           | -                 | ASTM D6290  |
| <b>MECHANICAL</b>                         |               |                   |             |
| Tensile Strength                          | 56.9          | MPa               | ASTM D638   |
| Elongation at Yield                       | 3.4           | %                 | ASTM D638   |
| Flexural Modulus                          | 2140          | MPa               | ASTM D790   |
| Flexural Strength                         | 80.0          | MPa               | ASTM D790   |
| Flexural Strain at Flexural Strength      | 8.4           | %                 | ASTM D790   |
| Izod Impact Strength – Unnotched at +23°C | NB            | J/m               | ASTM D256   |
| Izod Impact Strength – Notched at +23°C   | 29.2          | J/m               | ASTM D256   |
| <b>THERMAL</b>                            |               |                   |             |
| Melting Temperature                       | 225           | °C                | ASTM D3418  |
| Heat Deflection Temperature, 1.80 MPa     | 48.2          | °C                | ASTM D648   |
| Vicat Softening Temperature               | 170.6         | °C                | ASTM D1525  |
| Burning Behaviour                         | HB            | Class             | IEC 60695   |

These are typical properties: these are not to be construed as specifications.

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your Sipchem Representative for compliance with Food Contact Regulation.

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