

## Technical Data Sheet

### Sipchem PBT-R1-B3-084

#### Polybutylene Terephthalate Resin

**Product description:** Sipchem PBT-R1-B3-084 is a Polybutylene Terephthalate resin, manufactured by Sipchem Chemical Company in The Kingdom of Saudi Arabia using an Inventa-Fischer Technology. PBT-R1-B3-084 is a low 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)	84	g/10 min	ASTM D1238
Intrinsic Viscosity	0.83	dL/gr	ASTM D2857
Carboxyl End Group	< 30	meq/kg	ISO 2114
Colour (b*)	< 3	-	ASTM D6290
<b>MECHANICAL</b>			
Tensile Strength	59.8	MPa	ASTM D638
Elongation at Yield	3.8	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	86.6	MPa	ASTM D790
Flexural Strain at Flexural Strength	8.8	%	ASTM D790
Izod Impact Strength - Unnotched at +23°C	NB	J/m	ASTM D256
Izod Impact Strength - Notched at +23°C	22.8	J/m	ASTM D256
<b>THERMAL</b>			
Melting Temperature	223	°C	ASTM D3418
Heat Deflection Temperature, 1.80 MPa	51.1	°C	ASTM D648
Vicat Softening Temperature	176.5	°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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