

Technical Data Sheet

Sipchem PBT-R1-C4-046

Polybutylene Terephthalate Resin

Product description: Sipchem PBT-R1-C4-046 is a Polybutylene Terephthalate resin, manufactured by Sipchem Chemical Company in The Kingdom of Saudi Arabia using an Inventa-Fischer Technology. PBT-R1-C4-046 is a low viscosity neat PBT resin

Applications: Compounding

Properties	Typical Value	Unit	Test Method
PHYSICAL			
Density	1.31	g/cm ³	ASTM D1505
Melt Flow Rate (250°C/2.16kg)	46	g/10 min	ASTM D1238
Intrinsic Viscosity	0.94	dL/gr	ASTM D2857
Carboxyl End Group	< 30	meq/kg	ISO 2114
Colour (b*)	< 3	-	ASTM D6290
MECHANICAL			
Tensile Strength	58.7	MPa	ASTM D638
Elongation at Yield	3.5	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	83.9	MPa	ASTM D790
Flexural Strain at Flexural Strength	8.6	%	ASTM D790
Izod Impact Strength - Unnotched at +23°C	NB	J/m	ASTM D256
Izod Impact Strength - Notched at +23°C	27.7	J/m	ASTM D256
THERMAL			
Melting Temperature	223	°C	ASTM D3418
Heat Deflection Temperature, 1.80 MPa	50.9	°C	ASTM D648
Vicat Softening Temperature	175.2	°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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