Technical Data Sheet

Updated on June 2020

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 | ºC | ASTM D3418
Heat Deflection Temperature, 1.80 MPa | 50.9 | ºC | ASTM D648
Vicat Softening Temperature | 175.2 | ºC | 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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