



## VINPOL™ PBT4000

Polybutylene Terephthalate Resin

Melt Viscosity; 3,500-4,500 poise

Natural Color Only

VINPOL PBT4000 is a PBT for compounding only. It is not intended for injection molding. Its melt viscosity (@250°C/21.6 kgf) is 3,500-4,500 poise.

| Resin Property                                 | Typical Value | Units             | Test Method     |
|------------------------------------------------|---------------|-------------------|-----------------|
| Specific Gravity                               | 1.31          | g/cm <sup>3</sup> | ASTM D-792      |
| Mold Shrinkage, flow, 3.2mm                    | 1.9-2.1       | %                 | Supplier Method |
| Mold Shrinkage, xflow, 3.2mm                   | 2-2.2         | %                 | Supplier Method |
| Melt Viscosity                                 | 400           | Pa-s              | Supplier Method |
| Tensile Stress at Yield, Type I, 50mm/min      | 33            | MPa               | ASTM D-638      |
| Tensile Stress at Break, Type I, 50mm/min      | 54            | MPa               | ASTM D-638      |
| Tensile Strain at Break, Type I, 50mm/min      | 127           | %                 | ASTM D-638      |
| Flexural Stress at Yield, 1.3mm/min; 50mm span | 77            | MPa               | ASTM D-790      |
| Flexural Modulus, 1.3mm/min; 50mm span         | 2,150         | MPa               | ASTM D-790      |
| HDT, 0.45 MPa, 3.2mm, unannealed               | 115           | °C                | ASTM D-648      |
| HDT, 1.82 MPa, 3.2mm, unannealed               | 45            | °C                | ASTM D-648      |
| Notched Izod Impact Strength, 23°C             | 64            | J/m               | ASTM D-256      |
| Unnotched Izod Impact Strength, 23°C           | 2,029         | J/m               | ASTM D-4812     |
| Instrumented Impact Total Energy, 23°C         |               | ft-lb (J)         | ASTM D-3763     |

