

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 ³	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

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.