



VINPOL™ PBT50

Polybutylene Terephthalate Resin

MFR: 45-55 g/10 min

Natural Color

VINPOL PBT50 is a medium intrinsic viscosity PBT for injection molding applications that provides good chemical/solvent/fuel/oil resistance, good wear and weather resistance, high heat resistance and excellent moldability.

Resin Property	Typical Value	Units	Test Method
Melt Mass-Flow Rate, 250°C/2.16 kg	45-55	g/10 min	ASTM D-1238
Density	1.31	g/cm ³	ASTM D-792
Mold Shrinkage, Flow	0.12-0.18	%	Supplier Method
Tensile Stress at Break	7,600	psi	ASTM D-638
Flexural Modulus	339,000	psi	ASTM D-790
Flexural Strength	12,000	psi	ASTM D-790
Notched Izod Impact, 73 °F	1.0	ft-lb/in	ASTM D-256
Deflection Temperature Under Load, 66 psi, Unannealed	309	°F	ASTM D-648
Deflection Temperature Under Load, 264 psi, Unannealed	130	°F	ASTM D-648
Flame Rating	HB	-	Supplier Method

Pre-drying recommendations: 3-4 hrs at 185 °F. Recommended processing conditions: 445-490 °F barrel temperatures, 150-190 °F mold temperature, moderate to fast injection rate, 0-50 psi back pressure.

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.

Vinmar Polymers America, LLC / 16825 Northchase Drive, Suite 1400, Houston, TX 77060
Phone: 281-902-0900 Fax: 281-260-8096

Rev. Date 02/12/2026

