



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.

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