



VINPOL™ PBT1650

Polybutylene Terephthalate Resin

Melt Viscosity; 1450-1850 poise

Natural Color Only

VINPOL PBT1650 is a PBT for compounding/fibers only. It is not intended for injection molding. It is FDA compliant. Its melt viscosity (@250°C/21.6 kgf) is 1,450-1,850 poise.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate, 250°C, 2.16 kgf	50	g/10 min	ASTM D-1238
Specific Gravity	1.31	g/cm ³	ASTM D-792
Mold Shrinkage, flow, 3.2mm	1.5-2	%	Supplier Method
Mold Shrinkage, xflow, 3.2mm	1.5-2	%	Supplier Method
Melt Volume Rate, 250°C/10.0kg	45	cm ³ /10 min	ISO 1133
Tensile Stress at Yield, Type I, 50mm/min	58	MPa	ASTM D-638
Tensile Strain at Yield, Type I, 50mm/min	3.7	%	ASTM D-638
Tensile Stress at Break, Type I, 50mm/min	26	MPa	ASTM D-638
Tensile Strain at Break, Type I, 50mm/min	140	%	ASTM D-638
Tensile Modulus, 5mm/min	2,600	MPa	ASTM D-638
Flexural Stress at Yield, 1.3mm/min; 50mm span	83	MPa	ASTM D-790
Flexural Modulus, 1.3mm/min; 50mm span	2,400	MPa	ASTM D-790
HDT, 0.45 MPa, 3.2mm, unannealed	120	°C	ASTM D-648
HDT, 1.82 MPa, 3.2mm, unannealed	49	°C	ASTM D-648
Vicat Softening Temp., Rate B/50	173	°C	ISO 306
Vicat Softening Temp., Rate B/120	169	°C	ISO 306
CTE, -40°C to 40°C, flow	7.6E-05	1/°C	ASTM E-831
CTE, -40°C to 40°C, xflow	7.8E-05	1/°C	ASTM E-831
Notched Izod Impact Strength, 23°C	37	J/m	ASTM D-256
Notched Izod Impact Strength, -30°C	35	J/m	ASTM D-256
Instrumented Impact Total Energy, 23°C	25	ft-lb (J)	ASTM D-3763
Water Absorption, 23°C/sat	0.34	%	ISO 62
Water Absorption, 23°C/50% RH	0.08	%	ISO 62

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.

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