

# Technical Data Sheet

**Product Name:** ENMAT PHBV powder  
**Product Code:** Y1000

**Revision date:** 2024/9/17

## ENMAT™ Thermoplastics Resin Y1000

ENMAT Y1000 is a thermoplastics that can be used as a primary composition in the following applications:

- Injection molding
- Thermoforming
- Blown films
- Extrusions

## Typical Material Properties

Item	Data	Test Standard
Specific Gravity	1.25	ISO 1183-3:1999
Melt Flow Index	1-5	ISO 1133:1997, g/10 min, 190°C, 2.16kg
Yield Stress ( MPa)	31-36	ISO 527-1:1993
Tensile Strength (MPa)	36-39	ISO 527-1:1993
Elongation at Break (%)	1-3	ISO 527-1:1993
Young's Modulus(MPa)	1600-2100	ISO 527-1:1993
Flexural Modulus (MPa)	800-1100	ISO 178:1993
Vicat Softening Temperature (°C)	166	ISO 306:1994
Izod Impact (J/m)	55-60	ISO 180:2000
Heat Deflection Temperature (°C)	157-165	ISO 75-2:2003
DSC Melting Point (°C)	175-180	ISO 11357-3:1999

Note: The mechanical properties are tested based on turning the PHBV powder in to bar