



Alpha86 Radon Products

## PETG MATERIAL DATA SHEET

### Physical Properties /Property Testing Method /Typical Value

- Density ISO 1183, GB/T 1033 1.25 (g/cm<sup>3</sup> at 20.7 °C)
- Vicat Softening temperature\* ISO 306 GB/T 1633 85.1 (°C)
- Melt index 240 °C, 2.16 kg 11.2 (g/10 min)
- Melting temperature DSC, 10°C/min N/A
- Mechanical Properties Property Testing method Typical value
- Young's modulus (X-Y) ISO 527, GB/T 1040 1986 ± 268 (MPa)
- Tensile strength (X-Y) ISO 527, GB/T 1040 44.3 ± 1.3 (MPa)
- Tensile strength (Z) ISO 527, GB/T 1040 38.9 ± 3.0 (MPa)
- Elongation at break (X-Y) ISO 527, GB/T 1040 7.2 ± 1.1 (%)
- Bending modulus (X-Y) ISO 178, GB/T 9341 1165 ± 61 (MPa)
- Bending strength (X-Y) ISO 178, GB/T 9341 55.1 ± 2.6 (MPa)
- Notched Charpy impact strength (X-Y) ISO 179, GB/T 1043 4.7 ± 0.4 (kJ/m<sup>2</sup>)