

# Mahesh Manglesh Plastics Pvt. Ltd.

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PA6, PA66, POM, PBT, TPU, TPE, ABS, PMMA, PC, PA46, PPS, PPA



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## Comparison Between Arnite TV 4261 & 730C3031

Property	Arnite TV4261 PBT-GF30	ZiLITE 30 GF PBT 730C3031
Density	1.53 g/cm <sup>3</sup>	1.52 g/cm <sup>3</sup>
Tensile Strength	145 MPa	130 MPa
Tensile Modulus	9750 MPa	8000 MPa
Flexural Strength	220 MPa	190 MPa
Flexural Modulus	9400 MPa	8000 MPa
Elongation at Break	2.8%	6%
Notched Impact (23°C)	10 kJ/m <sup>2</sup>	130 J/m (note: different units)
Water Absorption	0.3%	0.25%
Melting Point	225 °C	225 °C
HDT 1.82 MPa	210 °C	200 °C
Shrinkage Parallel	0.4%	0.40%
Shrinkage Normal	1.1%	0.80% (transverse)
Volume Resistivity	1E13 Ω·cm	1E15 Ω·cm
Dielectric Strength	30 kV/mm	3 kV/mm
Burning Behavior	HB (0.75–3 mm)	UL 94 (values not specified)

### Summary :-

- **Mechanical Strength:** Arnite TV4 261 typically has slightly higher modulus and strength, while ZiLITE offers higher elongation at break.
- **Thermal Resistance:** Both materials have similar melting points, but Arnite has a slightly higher heat deflection temperature.
- **Electrical Properties:** ZiLITE shows higher volume resistivity, but Arnite has significantly higher dielectric strength.
- **Other Properties:** Both have low water absorption and comparable shrinkage. Burning behavior and impact properties may differ due to testing methods and units.

This table provides a practical summary for selecting between the two glass fiber-reinforced PBT materials, based on key engineering criteria.