



Comparison Between VALOX 420 & Pocan B3235

Property	Pocan B3235 (PBT-GF30)	Valox 420SE0 (PBT-GF30)
Density	1.53 g/cm ³	1.63 g/cm ³
Glass Fiber Content	30%	30%
Tensile Modulus	9800 MPa	10,000 MPa
Tensile Strength (Yield)	145 MPa	120 MPa
Strain at Break	2.9%	1.9%
Charpy Impact Strength, 23°C	65 kJ/m ²	~25 kJ/m ² (Unnotched)
Water Absorption	0.4%	0.09% (Saturated 23°C)
Deflection Temp (1.8 MPa)	210°C	210°C
Melting Temp	225°C	225°C
Vicat Softening Temp	Not specified	220°C
Flammability	HB (IEC 60695)	V-0/5VA (UL-94)

Summary -

- Both materials are PBT with 30% glass fiber reinforcement, suitable for injection molding and high strength applications.
- Valox 420SE0 typically has a slightly higher density and better UL flammability rating, while Pocan B3235 reports higher impact strength and elongation.
- Water absorption is lower for Valox 420SE0, indicating slightly higher dimensional stability in humid conditions.
- Thermal resistance is similar, making both materials suitable for demanding applications in automotive, electrical, and industrial fields.

This table summarizes the practical differences important for typical engineering decisions, omitting minor variations and focusing on those likely to affect performance or specification.