



Comparison Between ASEP TUE390AS & Wanthan 3390

Item / Property	ASEP TUE390AS	Wanthane WHT-3390
Supplier	ASEP Industries Sdn. Bhd.	Wanhua Chemical Group Co., Ltd.thermoplastic-polyurethane-tpu-granules-pdf.pdf
Polymer type	Thermoplastic polyester polyurethane elastomer	Polyester-based TPUthermoplastic-polyurethane-tpu-granules-pdf.pdf
Grade type	Injection molding grade	Injection molding gradethermoplastic-polyurethane-tpu-granules-pdf.pdf
Key features	Good processability, short molding cycle, no whitening, high economic practicality	Excellent mechanical properties, short cycle timethermoplastic-polyurethane-tpu-granules-pdf.pdf
Typical application	General injection-molded TPU parts	Screen packs and similar partsthermoplastic-polyurethane-tpu-granules-pdf.pdf
Appearance	Not explicitly stated (standard TPU pellets)	Uncolored transparent
Density	1.20 g/cm ³ (ASTM D792)	Not specified in TDS
Hardness	93 Shore A (ASTM D2240)	92 Shore A (ASTM D2240)
Tensile strength (ultimate)	40 MPa (ASTM D412)	40 MPa (ASTM D412)
100% modulus	10 MPa (ASTM D412)	8.5 MPa (ASTM D412)
300% modulus	13 MPa (ASTM D412)	15 MPa (ASTM D412)
Elongation at break	450% (ASTM D412)	500% (ASTM D412)
Tear strength	95 N/mm (ASTM D624)	120 N/mm (ASTM D624)

Glass transition temperature Tg	-20 °C (DSC, OSC 10 min)	Not listed in TDS thermoplastic-polyurethane-tpu-granules-pdf.pdf
Processing method	Injection molding	Injection molding thermoplastic-polyurethane-tpu-granules-pdf.pdf
Drying conditions	Not specified in this	85–90 °C for 3–4 h, moisture < 0.02% before processing thermoplastic-polyurethane-tpu-granules-pdf.pdf
Typical barrel temps	Not specified in this	Zones 1–4: 220/215/210/205 °C, nozzle 205 °C, mold 30 °C thermoplastic-polyurethane-tpu-granules-pdf.pdf

Summary -

For practical selection, both are 92–93 Shore A, 40 MPa tensile TPU grades; WHT-3390 offers somewhat higher elongation and tear strength, while TUE390AS has slightly higher 100% modulus and a stated Tg, so the choice can be made mainly on availability, price, and any specific need for higher tear resistance or slightly stiffer low-strain response.

