

Wanthane® WHT-1580

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1580 is polyester-based TPU for injection molding and extrusion applications, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with excellent strength , resilience and abrasion resistance

Applications:

Shoes, Seals, Cable, Compounding, Belt, Injection Part etc

General Information	
Features	Good Abrasion Resistance
	Good Strength
	Resilient
Uses	Belts/Belt Repair
	Compounding
	Footwear
	Seals
	Wire & Cable Applications
Appearance	Colorless
	Translucent
	Transparent - Slight Yellow
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	81		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.50	MPa	
300% Strain	9.50	MPa	
Tensile Strength	29.0	MPa	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength	93.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-35.0	°C	ASTM D3417

Injection	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Time	2.0 to 3.0	hr
Rear Temperature	180	°C
Middle Temperature	185	°C
Front Temperature	190	°C
Nozzle Temperature	195	°C
Injection Pressure	70.0	MPa
Extrusion	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	180	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 5 Temp.	190	°C
Die Temperature	190	°C

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