Wanthane® WHT-1180

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1180 is polyester-based TPU for injection molding and extrusion applications, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with the characteristic of Plasticizer Free, Excellent strength , resilience and abrasion resistance
Applications:
Shoes, Compounding, Straps etc

General Information	
Features	Good Abrasion Resistance Good Strength Resilient
Uses	Compounding Footwear Strapping
Appearance	Colorless Translucent Transparent - Slight Yellow
Forms	Pellets
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% Strain	5.00	MPa	
300% Strain	9.00	MPa	
Tensile Strength	30.0	MPa	ASTM D412
Tensile Elongation (Break)	590	%	ASTM D412
Tear Strength	87.0	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-38.0	°C	ASTM D3417
Injection	**Nominal Value**	**Unit**	
Drying Temperature	90.0 to 100	°C	

Drying Time	2.0 to 3.0	hr
Rear Temperature	185	°C
Middle Temperature	190	°C
Front Temperature	195	°C
Nozzle Temperature	200	°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.	185	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 5 Temp.	195	°C
Die Temperature	195	°C

Recommended distributors for this material

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