

# Wanthane® WHT-8180

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-8180 is polyether-based TPU, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with the characteristic of excellent hydrolytic stability, fungus resistance, low temperature flexibility & UV resistance.

Applications:

Wire & Cable, Film & Sheet, Hose & Tube, Animal Tag, Fire Hose, Sports Equipments etc.

General Information			
Features	Fungus Resistant		
	Good UV Resistance		
	Hydrolytically Stable		
	Low Temperature Flexibility		
Uses	Film		
	Hose		
	Sheet		
	Sporting Goods		
	Tubing		
	Wire & Cable Applications		
Appearance	Colorless		
	Translucent		
	Transparent - Slight Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	82		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	6.00	MPa	
300% Strain	10.0	MPa	
Tensile Strength	25.0	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	75.0	kN/m	ASTM D624

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-45.0	°C	DSC
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	170	°C	
Middle Temperature	175	°C	
Front Temperature	180	°C	
Nozzle Temperature	185	°C	
Injection Pressure	65.0	MPa	
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 3 Temp.	175	°C	
Cylinder Zone 5 Temp.	180	°C	
Die Temperature	175	°C	

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#### Recommended distributors for this material

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