

# Wanthane® WHT-7180

Polycarbonate + TPU

Wanhua Chemical Group Co., Ltd.

## Message:

WHT-7180 is polycarbonate-based TPU, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with the characteristics such as:

Higher Mechanical Strength

As good hydrolytic stability as polyether-based TPU

Better chemical resistance than other polyester-based TPUs

Better weather resistance such as heat and fungus resistance than common polyester-based TPUs

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Applications:

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

General Information			
Features	Fungus Resistant		
	Good Chemical Resistance		
	Good Strength		
	Hydrolytically Stable		
	Medium Heat Resistance		
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	1.21	g/cm <sup>3</sup>	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	6.00	MPa	
300% Strain	19.0	MPa	
Tensile Strength	30.0	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength	85.0	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	185	°C	
Middle Temperature	190	°C	
Front Temperature	195	°C	
Nozzle Temperature	190	°C	
Injection Pressure	75.0	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.	180	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 5 Temp.	190	°C	
Die Temperature	185	°C	

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#### Recommended distributors for this material

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