

# Wanthane® WHT-8185

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	1.11	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.00	MPa	
300% Strain	12.0	MPa	
Tensile Strength	26.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength	80.0	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	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	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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

