

Wanthane® WHT-1180H

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1180H is polyester-based TPU, supplied in form of transparent, translucent, colorless or slightly yellowish pellets as a rigid polymer for injection molding. Engineered to provide high toughness, excellent tear strength, outstanding abrasion, hydrolytic and oil resistance.

Applications:

Components for automobile parts, building and construction, agriculture, industrial equipment, compounding and modifier, etc.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	High Tensile Strength		
	Hydrolysis Resistant		
	Oil Resistant		
Uses	Agricultural Applications		
	Automotive Applications		
	Building Materials		
	Compounding		
	Construction Applications		
	Industrial Applications		
Appearance	Colorless		
	Translucent		
	Transparent - Slight Yellow		
Forms	Pellets		
Processing Method	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 D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	44.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	33.0	MPa	
300% Strain	38.0	MPa	
Tensile Strength	46.0	MPa	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412

Tear Strength	237	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	205	°C	
Middle Temperature	210	°C	
Front Temperature	215	°C	
Nozzle Temperature	220	°C	

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