

Wanthane® WHT-1590

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1590 is polyester-based TPU for injection molding and extrusion applications, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with Excellent strength , resilience and abrasion resistance

Applications:

Shoes, Seals, Hose, Cable, Conveyor Belt, Auto Part, Injection Part etc

General Information			
Features	Good Abrasion Resistance		
	Good Strength		
	Resilient		
Uses	Automotive Applications		
	Belts/Belt Repair		
	Footwear		
	Hose		
	Seals		
	Wire & Cable Applications		
Appearance	Colorless		
	Translucent		
	Transparent - Slight Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	8.10	MPa	
300% Strain	14.7	MPa	
Tensile Strength	34.4	MPa	ASTM D412
Tensile Elongation (Break)	560	%	ASTM D412
Tear Strength	127	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	-25.0	°C	ASTM D3417
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	195	°C	
Middle Temperature	200	°C	
Front Temperature	205	°C	
Nozzle Temperature	210	°C	
Injection Pressure	60.0	MPa	
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0 to 4.0	hr	
Cylinder Zone 1 Temp.	195	°C	
Cylinder Zone 3 Temp.	200	°C	
Cylinder Zone 5 Temp.	205	°C	
Die Temperature	205	°C	

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Recommended distributors for this material

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