

Wanthane® WHT-1185

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1185 is polyester-based TPU for injection molding and extrusion applications, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with the characteristic of Plasticizer Free, Excellent strength , resilience and abrasion resistance

Applications:

Shoes, Compounding, Belt etc

General Information			
Features	Good Abrasion Resistance		
	Good Strength		
	Resilient		
Uses	Belts/Belt Repair		
	Compounding		
	Footwear		
Appearance	Colorless		
	Translucent		
	Transparent - Slight Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	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	6.00	MPa	
300% Strain	12.0	MPa	
Tensile Strength	33.0	MPa	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412
Tear Strength	100	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-35.0	°C	ASTM D3417
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	

Drying Time	2.0 to 3.0	hr
Rear Temperature	190	°C
Middle Temperature	195	°C
Front Temperature	200	°C
Nozzle Temperature	205	°C
Injection Pressure	70.0	MPa
Extrusion	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	190	°C
Cylinder Zone 3 Temp.	195	°C
Cylinder Zone 5 Temp.	200	°C
Die Temperature	200	°C

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