

Wanthane® WHT-A890

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-A890 is aliphatic polyether-based TPU, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with the characteristic of excellent UV resistance, good hydrolytic stability, fungus resistance and low temperature flexibility etc.

Applications:

Aerospace, ocean vessel, automobile, electronics, medical field, high performance shoes, etc.

General Information			
Features	Aliphatic		
	Fungus Resistant		
	Good UV Resistance		
	Hydrolytically Stable		
	Low Temperature Flexibility		
Uses	Aerospace Applications		
	Automotive Applications		
	Electrical/Electronic Applications		
	Footwear		
	Medical/Healthcare Applications		
Appearance	Colorless		
	Translucent		
	Transparent - Slight Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	6.00	MPa	
300% Strain	21.0	MPa	
Tensile Strength	25.0	MPa	ASTM D412
Tensile Elongation (Break)	350	%	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	195	°C
Middle Temperature	200	°C
Front Temperature	205	°C
Nozzle Temperature	210	°C
Extrusion	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	185	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 5 Temp.	195	°C
Die Temperature	190	°C

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