

Wanthane® WHT-1490IV

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-1490IV is a 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 transparenence.

Applications:

Air Tube, transparent shoe soles, ect

General Information	
Features	Good Strength
	High Clarity
	Resilient
Uses	Footwear
	Tubing
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)	91		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	6.00	MPa	
300% Strain	12.0	MPa	
Tensile Strength	30.0	MPa	ASTM D412
Tensile Elongation (Break)	420	%	ASTM D412
Tear Strength	120	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-30.0	°C	ASTM D3417
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	4.0 to 6.0	hr	

Rear Temperature	185	°C
Middle Temperature	190	°C
Front Temperature	195	°C
Nozzle Temperature	200	°C
Injection Pressure	70.0	MPa
Extrusion	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Time	4.0 to 6.0	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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