

# WanBlend® WHT-THF8485T2

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-THF8485T2 is polyether-based flame retardant thermoplastic Polyurethane (TPU) compound, supplied in form of transparent, translucent pellets, which combine the zero halogen objective with excellent mechanical properties and processability.

Applications:

Extrusion - wire and cable

General extrusion and injection molding where flame retardant properties are required.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Processability		
	Halogen Free		
Uses	Wire & Cable Applications		
Appearance	Clear/Transparent		
	Translucent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	82 to 88		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	5.35	MPa	
300% Strain	10.5	MPa	
Tensile Strength	18.0	MPa	ASTM D412
Tensile Elongation (Break)	560	%	ASTM D412
Tear Strength	80.0	kN/m	ASTM D624
Flammability	Nominal Value		Test Method
Flame Rating	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	180	°C	

Middle Temperature	190	°C
Front Temperature	195	°C
Nozzle Temperature	200	°C
Injection Pressure	65.0	MPa
Extrusion	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	175	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 5 Temp.	195	°C
Die Temperature	190	°C

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#### Recommended distributors for this material

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