

# WanBlend® WHT-HF8695

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-HF8695 is polyether-based flame retardant thermoplastic Polyurethane (TPU) compound, supplied in form of white 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	White		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92 to 98		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	9.00	MPa	
300% Strain	11.8	MPa	
Tensile Strength	17.0	MPa	ASTM D412
Tensile Elongation (Break)	420	%	ASTM D412
Tear Strength	82.0	kN/m	ASTM D624
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	175	°C	
Middle Temperature	180	°C	
Front Temperature	190	°C	

Nozzle Temperature	195	°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.	190	°C
Die Temperature	185	°C

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#### Recommended distributors for this material

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