

WanBlend® WHT-HF8675

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-HF8675 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 ³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	72 to 78		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.00	MPa	
300% Strain	7.00	MPa	
Tensile Strength	10.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	60.0	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	165	°C
Middle Temperature	170	°C
Front Temperature	175	°C

Nozzle Temperature	180	°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.	165	°C
Cylinder Zone 3 Temp.	175	°C
Cylinder Zone 5 Temp.	180	°C
Die Temperature	175	°C

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