

WanBlend® WHT-HF9485K2

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-HF9485K2 is polyester-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)	82 to 88		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.50	MPa	
300% Strain	10.1	MPa	
Tensile Strength	33.0	MPa	ASTM D412
Tensile Elongation (Break)	560	%	ASTM D412
Tear Strength	90.0	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	185	°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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