

Wanthane® WHT-1189B

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Extrusion grade
FEATURES: Excellent mechanical properties, high abrasion resistance, outstanding hydrolysis property, good low-temperature flexibility.
Applications: Toothed belts, conveyor belts, etc.

General Information			
Features	Flexibility at low temperatures		
	Good wear resistance		
	Hydrolysis resistance		
Uses	Conveyor		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	50.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	7.50	MPa	ASTM D412
300% strain	17.0	MPa	ASTM D412
Tensile Strength (Break)	45.0	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412
Tear Strength	95.0	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature	90 - 100	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.030	%	
Screw L/D Ratio	25.0:1.0 to 30.0:1.0		
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0		
Extrusion	Nominal Value	Unit	
Drying Temperature	90 - 100	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.030	%	

Cylinder Zone 1 Temp.	180	°C
Cylinder Zone 2 Temp.	185	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	195	°C
Adapter Temperature	200	°C
Die Temperature	190 - 195	°C

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