

Wanthane® WHT-1190B

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Extrusion grade
FEATURES: Excellent mechanical properties, high abrasion resistance, wear resistance
Applications: Wire & Cable, high pressure oil tubes, conveyor belt, etc

General Information			
Features	Good wear resistance		
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Uses	Conveyor		
	Wire and cable applications		
	Pipe fittings		
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)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	45.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	8.50	MPa	ASTM D412
300% strain	16.5	MPa	ASTM D412
Tensile Strength (Break)	45.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength	130	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°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	100 - 110	°C	

Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.030	%
Cylinder Zone 1 Temp.	190	°C
Cylinder Zone 2 Temp.	195	°C
Cylinder Zone 3 Temp.	200	°C
Cylinder Zone 4 Temp.	205	°C
Adapter Temperature	210	°C
Die Temperature	205	°C

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