

Wanthane® WHT-1180EC

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Extrusion grade
FEATURES: Excellent mechanical properties, high abrasion resistance, good extrusion stability, good low-temperature flexibility.
Applications: Wire & cable, spiral tubes, conveyor belt, etc.

General Information	
Features	Flexibility at low temperatures
	Good wear resistance
Uses	Conveyor
	Wire and cable applications
	Pipe fittings
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	80.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.00	MPa	ASTM D412
300% strain	9.00	MPa	ASTM D412
Tensile Strength (Break)	32.0	MPa	ASTM D412
Tensile Elongation (Break)	160	%	ASTM D412
Tear Strength	90.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	18	%	ASTM D395
70°C, 22 hr	50	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-45.0	°C	ASTM D3418
Vicat Softening Temperature	80.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	90 - 100	°C	

Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	180	°C
Middle Temperature	185	°C
Front Temperature	190	°C
Nozzle Temperature	195	°C
Mold Temperature	23	°C
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.	175	°C
Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	190	°C
Adapter Temperature	195	°C
Die Temperature	190	°C

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