

Wanthane® WHT-1185F

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Extrusion and injection grade
FEATURES: Excellent mechanical properties, good extrusion stability, good low-temperature flexibility, outstanding wear resistance.
APPLICATIONS: Hoses, spiral tubes, screenpacks, technical parts, etc.

General Information			
Features	Flexibility at low temperatures		
	Good wear resistance		
Uses	Engineering accessories		
	Pipe		
	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)	89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	35.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	6.00	MPa	ASTM D412
300% strain	12.0	MPa	ASTM D412
Tensile Strength (Break)	39.0	MPa	ASTM D412
Tensile Elongation (Break)	570	%	ASTM D412
Tear Strength	118	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-40.0	°C	ASTM D3418
Vicat Softening Temperature	90.0	°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	190	°C	

Middle Temperature	195	°C
Front Temperature	200	°C
Nozzle Temperature	205	°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.	185	°C
Cylinder Zone 2 Temp.	190	°C
Cylinder Zone 3 Temp.	195	°C
Cylinder Zone 4 Temp.	200	°C
Adapter Temperature	205	°C
Die Temperature	195 - 200	°C

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