

Wanthane® WHT-1185EC

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyester-based grade Extrusion and injection molding grade

FEATURES: Excellent mechanical properties, high abrasion resistance, low compression set, good low-temperature flexibility

Applications: Wire & cable, tubes, conveyor belt, automotive interior applications, rigid / flexible composite systems, etc

General Information	
Features	Low compressive deformability
	Flexibility at low temperatures
	Good wear resistance
Uses	Conveyor
	Wire and cable applications
	Pipe fittings
	Application in Automobile Field
	Car interior parts
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)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
DIN Abrasion	70.0	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)	37.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	100	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	23	%	ASTM D395
70°C, 22 hr	60	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-42.0	°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	185	°C	
Middle Temperature	190	°C	
Front Temperature	195	°C	
Nozzle Temperature	200	°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.	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	195	°C	

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