

Wanthane® WHT-8180RV

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyether-based grade Extrusion, injection molding, calendering, compounding grade
FEATURES: Excellent hydrolytic stability, fungus resistance, good low-temperature flexibility, complies with FDA(21 CFR 177.1680, 177.2600), ROHS, ISO 10993 & USP VI
Applications: Wire & cable, medical products, compounds, etc.

General Information	
Features	Flexibility at low temperatures
	Antibacterial property
	Hydrolysis stability
Uses	Wire and cable applications
	Composite
	Medical/nursing supplies
Agency Ratings	FDA 21 CFR 177.1680
	FDA 21 CFR 177.2600
	ISO 10993
	USP Class VI
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Composite
	Extrusion
	Calendering
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	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	58.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	6.00	MPa	ASTM D412
300% strain	10.0	MPa	ASTM D412
Tensile Strength (Break)	25.0	MPa	ASTM D412

Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength	80.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	23	%	ASTM D395
70°C, 22 hr	55	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-45.0	°C	ASTM D3418
Vicat Softening Temperature	67.0	°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	175	°C	
Middle Temperature	180	°C	
Front Temperature	185	°C	
Nozzle Temperature	190	°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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