

Wanthane® WHT-8190RV

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

TYPE: Polyether-based grade Extrusion and injection molding 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: Cable sheathing, belts, medical products, rollers, etc

General Information	
Features	Flexibility at low temperatures
	Antibacterial property
	Hydrolysis stability
Uses	Conveyor belt repair
	Wire and cable applications
	Roller
	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	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	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	60.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	8.00	MPa	ASTM D412
300% strain	15.0	MPa	ASTM D412
Tensile Strength (Break)	32.0	MPa	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412

Tear Strength	100	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	23	%	ASTM D395
70°C, 22 hr	68	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-40.0	°C	ASTM D3418
Vicat Softening Temperature	83.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°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	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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