WanBlend® WHT-185E5

Thermoplastic Polyurethane Elastomer (Polyester)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-185ET5 is polyester-based TPU compound available in cylinder form that can solve a wide range of static decay, static shielding and electromagnetic shielding problems.

Applications:

Electronic component packaging, Pipes, Belts, Component trays, etc.

Electromagnetic Shielding (EMI)	General Information			
Electrical/Electronic Applications Packaging Piping	Features	Electromagnetic Shielding (EMI)		
Packaging Piping Processing Method Extrusion Processing Method Extrusion Unit Test Method Physical Nominal Value Unit Test Method Density 1.24 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress 4STM D412 ASTM D412 100% Strain 7.00 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Ters Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 **C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	Uses	Belts/Belt Repair		
Processing Method Extrusion Projectal Nominal Value Unit Test Method Density 1.24 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress 4STM D412 ASTM D412 100% Strain 7.00 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 **C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5 ohms · cm ASTM D257 Extrusion Nominal Value Unit Test Method Drying Temperature 95.0 to 100 **C		Electrical/Electronic Applications		
Processing Method Extrusion Physical Nominal Value Unit Test Method Density 1.24 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress 7.00 MPa ASTM D412 100% Strain 7.00 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tersile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D644 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D317 Electrical Nominal Value Unit Test Method Surface Resistivity <1.0E+5 ohms cm ASTM D257 Volume Resistivity <1.0E+5 ohms cm <td colspan="3">Packaging</td>		Packaging		
Physical Nominal Value Unit Test Method Density 1.24 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress ASTM D412 ASTM D412 100% Strain 7.00 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 "C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5		Piping		
Physical Nominal Value Unit Test Method Density 1.24 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress ASTM D412 ASTM D412 100% Strain 7.00 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Strength 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 "C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5				
Density 1.24 g/cm³ ASTM D792 Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress 7.00 MPa ASTM D412 300% Strain 12.0 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 *C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5 ohms cm ASTM D257 Volume Resistivity < 1.0E+5 ohms cm ASTM D257 Extrusion Nominal Value Unit Test Method Drying Temperature 95.0 to 100 *C C Drying Time	Processing Method	Extrusion		
Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress - 7.00 MPa ASTM D412 100% Strain 7.00 MPa ASTM D412 Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	Physical	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A) 85 ASTM D2240 Elastomers Nominal Value Unit Test Method Tensile Stress 7.00 MPa 300% Strain 12.0 MPa Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	Density	1.24	g/cm³	ASTM D792
Elastomers Nominal Value Unit Test Method Tensile Stress	Hardness	Nominal Value	Unit	Test Method
ASTM D412 Tensile Stress 7.00 MPa 300% Strain 12.0 MPa Tensile Strength 20.0 MPa Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	Durometer Hardness (Shore A)	85		ASTM D2240
100% Strain 7.00 MPa 300% Strain 12.0 MPa Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	Elastomers	Nominal Value	Unit	Test Method
300% Strain 12.0 MPa Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	Tensile Stress			ASTM D412
Tensile Strength 20.0 MPa ASTM D412 Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	100% Strain	7.00	MPa	
Tensile Elongation (Break) 460 % ASTM D412 Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5	300% Strain	12.0	MPa	
Tear Strength 95.0 kN/m ASTM D624 Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity <1.0E+5 ohms ASTM D257 Volume Resistivity <1.0E+5 ohms cm ASTM D257 Extrusion Nominal Value Unit Drying Temperature 95.0 to 100 °C Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 199 °C Cylinder Zone 3 Temp. 199 °C	Tensile Strength	20.0	MPa	ASTM D412
Thermal Nominal Value Unit Test Method Glass Transition Temperature -39.0 °C ASTM D3417 Electrical Nominal Value Unit Test Method Surface Resistivity <1.0E+5 ohms cm ASTM D257 Volume Resistivity <1.0E+5 ohms cm ASTM D257 Extrusion Nominal Value Unit Drying Temperature 95.0 to 100 °C Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195 °C	Tensile Elongation (Break)	460	%	ASTM D412
Glass Transition Temperature -39.0 Nominal Value Unit Test Method Surface Resistivity < 1.0E+5 ohms ASTM D257 Volume Resistivity < 1.0E+5 ohms·cm ASTM D257 Extrusion Nominal Value Unit Drying Temperature 95.0 to 100 °C Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195	Tear Strength	95.0	kN/m	ASTM D624
Electrical Nominal Value Unit Test Method Surface Resistivity < 1.0E+5 ohms ASTM D257 Volume Resistivity < 1.0E+5 ohms · cm ASTM D257 Extrusion Nominal Value Unit Drying Temperature 95.0 to 100 °C Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195 °C	Thermal	Nominal Value	Unit	Test Method
Surface Resistivity < 1.0E+5	Glass Transition Temperature	-39.0	°C	ASTM D3417
Volume Resistivity< 1.0E+5ohms·cmASTM D257ExtrusionNominal ValueUnitDrying Temperature95.0 to 100°CDrying Time2.0 to 3.0hrCylinder Zone 1 Temp.190°CCylinder Zone 3 Temp.195°C	Electrical	Nominal Value	Unit	Test Method
Extrusion Nominal Value Unit Drying Temperature 95.0 to 100 °C Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195 °C	Surface Resistivity	< 1.0E+5	ohms	ASTM D257
Drying Temperature 95.0 to 100 °C Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195 °C	Volume Resistivity	< 1.0E+5	ohms·cm	ASTM D257
Drying Time 2.0 to 3.0 hr Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195 °C	Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp. 190 °C Cylinder Zone 3 Temp. 195 °C	Drying Temperature	95.0 to 100	°C	
Cylinder Zone 3 Temp. 195 °C	Drying Time	2.0 to 3.0	hr	
<u> </u>	Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 5 Temp. 195 °C	Cylinder Zone 3 Temp.	195	°C	
	Cylinder Zone 5 Temp.	195	°C	
Die Temperature 200 °C	Die Temperature	200	°C	

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