Wanthane® WHT-2190

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-2190 is polycaprolactone-based TPU for injection molding applications, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with Excellent strength and abrasion resistance

Applications:

High Quality Shoulder belt, seals, Gaskets, Wheels, and Castors

General Information			
Features	Good Abrasion Resistance		
	Good Strength		
Uses	Gaskets		
	Seals		
	Wheels		
Appearance	Colorless		
, pp. ca. a.i.c.	Translucent		
	Transparent - Slight Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Elastomers Tensile Stress	Nominal Value	Unit	Test Method ASTM D412
	Nominal Value 8.00	Unit MPa	
Tensile Stress			
Tensile Stress 100% Strain 300% Strain	8.00	MPa	
Tensile Stress 100% Strain 300% Strain Tensile Strength	8.00 14.0	MPa MPa	ASTM D412
Tensile Stress 100% Strain 300% Strain Tensile Strength Tensile Elongation (Break)	8.00 14.0 29.0	MPa MPa MPa	ASTM D412
Tensile Stress 100% Strain 300% Strain Tensile Strength Tensile Elongation (Break)	8.00 14.0 29.0 500	MPa MPa MPa %	ASTM D412 ASTM D412 ASTM D412
Tensile Stress 100% Strain 300% Strain Tensile Strength Tensile Elongation (Break) Tear Strength	8.00 14.0 29.0 500 120	MPa MPa MPa % kN/m	ASTM D412 ASTM D412 ASTM D412 ASTM D624
Tensile Stress 100% Strain 300% Strain Tensile Strength Tensile Elongation (Break) Tear Strength Thermal	8.00 14.0 29.0 500 120 Nominal Value	MPa MPa MPa % kN/m Unit	ASTM D412 ASTM D412 ASTM D412 ASTM D624 Test Method
Tensile Stress 100% Strain 300% Strain Tensile Strength Tensile Elongation (Break) Tear Strength Thermal Glass Transition Temperature	8.00 14.0 29.0 500 120 Nominal Value -40.0	MPa MPa MPa % kN/m Unit	ASTM D412 ASTM D412 ASTM D412 ASTM D624 Test Method

Rear Temperature	195	°C
Middle Temperature	200	°C
Front Temperature	205	°C
Nozzle Temperature	210	°C
Injection Pressure	65.0	MPa
Extrusion	Nominal Value	Unit
Drying Temperature	90.0 to 100	°C
Drying Temperature Drying Time	90.0 to 100 4.0 to 6.0	°C hr
Drying Time	4.0 to 6.0	hr
Drying Time Cylinder Zone 1 Temp.	4.0 to 6.0 190	hr °C

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