

WHT-8170

	WHT-8170 is polyether-based TPU,				
	supplied in form of transparent,				
Description	translucent, colorless or slightly yellowish				
	pellets with the characteristic of excellent				
	hydrolytic stability, fungus resistance, low				
	temperature flexibility & UV resistance.				
Annlinations	Soft-touch Injection fields such as animal				
Applications	tag, belts,etc.				
	According to our experience, the				
	characteristics of the injection molding				
	machine that are suitable for processing				
	are the following:				
	 L/D ratio between 18:1 and 22:1 for 				
	Injection molding				
Working	 The screw must have at least 3 				
•	zones and a compression ratio				
Instructions	between 2:1 and 3:1. Screws with a				
	compression ratio greater than 4:1				
	should be avoided.				
	 The screw should have a continuous 				
	regulation device and the working				
	power higher than that for				
	processing other plastics.				

For optimum results, previous drying of the product during 3-4 hours at 80~90°C is advisable, in a hot air circulatory, vacuum or desiccant-air dryer. The suggested processing-temperature profiles are depicted in the table below.

Property

PROPERTY	Method	Units	8170
Hardness	ASTM D 2240	Shore A	70
100% Modulus	ASTM D 412	MPa	2.9
300% Modulus	ASTM D 412	MPa	6.3
Tensile Strength	ASTM D 412	MPa	22.1
Ultimate Elongation	ASTM D 412	%	700
Tear Strength	ASTM D 624	N/mm	60.5

These products can only be ordered in typical quantities.

Please contact your sales representative for details.

Injection Molding Conditions for WHT-8170

Nozzle (°	C) Metering(°C	C) Compression	on(°C) Feed (°C	;)
205	200	195	190	_

Regrind Usage

Where end-use requirements permit, up to 20% resin regrind may be used with virgin material, provided that the material is kept free of contamination and is properly dried (see section on Drying). Any regrind used must be generated from properly molded/extruded parts, sprues, runners, trimmings, and/or films. All regrind used must be clean, uncontaminated, and thoroughly blended with virgin resin prior to drying and processing. Under no circumstances should degraded, discolored, or contaminated material be used for regrind. Materials of this type should be discarded. Improperly mixed and/or dried regrind may diminish the desired properties. It is critical that you test finished parts produced with any amount of regrind to ensure that your end-use performance requirements are fully met.

Disclaime

The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products

