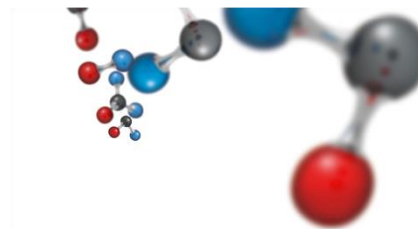


# Technical Data Sheet (TDS)

## WHT-8885



- **Type:** Polyether-based grade, extrusion and injection molding grade.
- **Features:** Excellent transparency, hydrolytic stability, fungus resistance, good low-temperature flexibility, complies with FDA(21 CFR 177.1680, 177.2600), ROHS.
- **Applications:** Rigid/flexible composite systems, engineering components, etc.
- **Apperance:** Colorless, transparent and oval particles

## SPECIFICATIONS

Property	Value	Dimension	Test method
Shore Hardness	88	Shore A	ASTM D2240
Tensile Strength at 100% Elongation	8	MPa	ASTM D412
Tensile Strength at 300% Elongation	14	MPa	ASTM D412
Tensile Strength	35	MPa	ASTM D412
Ultimate Elongation	550	%	ASTM D412
Tear Strength	110	N/mm	ASTM D624
DIN Abrasion	35	mm <sup>3</sup>	ISO 4649

\*All these physical properties are based on injection molded samples, which are conditioned at 23 °C/50%. Above values are typical values and should not be used as specifications.

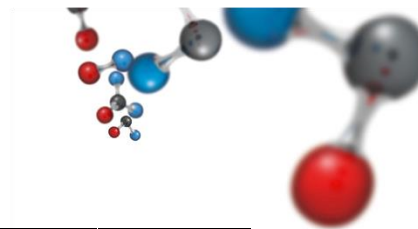
## Processing Recommendations

Based on our experience, the features of recommended screw are the following:

1. L/D ratio should be between 28 and 32.
2. The appropriate compression ratio is from 2:1 to 3:1.
3. The screw extruder should have four sections which have continued constant pitch. The distance between screw and barrel should be 0.1 to 0.2 mm. Depending on the size and type of the screw and die, the breaker plates used should have holes of 1.5 to 5 mm.
4. Main power is at least 1.5 times higher than that for PVC and other common plastics.
5. TPU is shear sensitive, for this reason, the speed of extruder should be low in case of degradation during processing.

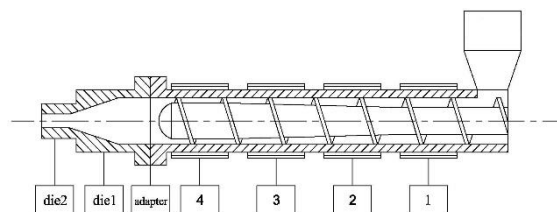
# Technical Data Sheet (TDS)

## WHT-8885



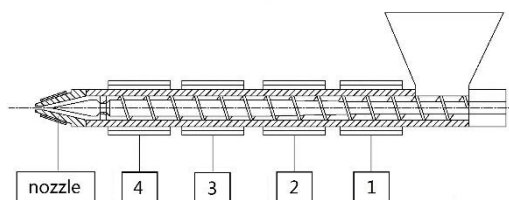
### Typical Processing Conditions

Wanthane® WHT-8885 can be injection-molded. Typical processing conditions are listed in the following tables and figures. You can contact our [technical service](#) for further inquiries about products or troubleshooting.



Type: screw: 40mm, L/D: 32, compression ratio 3:1

	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	180	185	190	195	200	195	190



	Zone1	Zone2	Zone3	Zone4	Nozzle	Mold
°C	190	195	200	205	200	30

### Drying

Wanthane® materials are supplied pre-dried in moisture guarded bags. Dry Wanthane® will rapidly absorb moisture when exposed to atmosphere. For recyclable products, Wanthane® WHT-8885 must be dried before processing. It is recommended to dry the material at 90-100 °C for 3-4 h in a circulating air or dehumidified air dryer. The moisture content must be lower than 0.02% before and during processing.

### Packaging

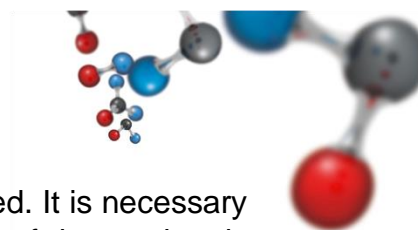
Wanthane® WHT-8885 is packaged in the form of uncolored transparent pellets in PE-lined bags of 25 Kg net weight (1000 Kg/pallet) or 500kg,1000kg octabin.

### Storage

Wanthane® should be inspected to assure containers are not broken during transportation. Containers should be stored in a cool and dry environment, and should be brought to room temperature before opening in order to prevent condensation.

# Technical Data Sheet (TDS)

## WHT-8885



Once being used, containers with residual materials should be sealed. It is necessary to cover the feed hopper of the processing machine. The shelf life of the product is unlimited, but it is recommended to ask for retest after 1 year from the production date.

### Health and Safety

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Wanthane® materials have no hazardous reactions observed. The waste can be discarded to public garbage cans. When contacting or processing this product, it is recommended that all personnel wear eye/face protection and suitable protective clothing. Any further safety information about this product is available in our [technical service](#) center.

**For more information about safety and environment, please refer to our MSDS or contact our customer service center.**

**For further information please contact us:**

Address: Wanhua Chemical Group Co., Ltd.

No.59,Chongqing Street,YEDA,Yantai,264006,China Web-site: <http://www.whchem.com>

Customer service: Tel: +86 (535) 3388825 Fax: +86 (535) 6857160

The information provided here is for reference only. 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.

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Date: May 25,2021  
Technical Data Sheet (TDS)  
WHT-8885

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[www.borsodchem-group.com](http://www.borsodchem-group.com)

This information is based on our most recent knowledge. However, the application and processing of the material after sale is beyond our control and we cannot assume responsibility for any use of this product outside BorsodChem premises. While the data and information contained in the present datasheet are provided in good faith, these are to be considered as guidance only. Thus, this TDS shall not constitute a guarantee for any specific properties or quality standards. The recipient of a product (downstream user or distributor) is obliged to check the suitability of this material for the intended use and accepts sole responsibility for compliance with any legal requirements relating to its use. This document does not constitute a warranty or guarantee.

Manufactured by:

**BorsodChem Zrt.**  
Bolyai tér 1.  
H-3700, Kazincbarcika  
Hungary  
Phone: +36-48 511 211  
Fax: +36-48 511 511