# CERTENE™ PHT-4

#### Polypropylene Homopolymer

#### Muehlstein

#### Message:

PHT-4 is a certified prime grade Polypropylene specially designed for EXTRUSION of Water-Quench Cast Film for Slit film and Tape applications. PHT-4 combines excellent processability, very good thermal stability, and high degree of purity with Low Water Carry-over and good balance of tape strength and orientation properties, as well as, excellent process stability in extrusion application. PHT-4 applications include stretched tapes for textile Raffia uses, such as woven industrial sacks, carpet backing, tarpaulins and geotextiles. Fibrillated tapes for twines and ropes, and monofilaments for bristles and cordage, are other applications of PHT-4. Recommended processing temperatures of PHT-4 are: 1) tape - 204°C to 260°C in barrel and 230-250°C in head, and 2) multifilament - 210° to 230°C. PHT-4 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food articles

General Information			
Features	High purity		
	Homopolymer		
	Workability, good		
	Good processing stability		
	Good strength		
	Thermal stability, good		
	Compliance of Food Exposure		
	Low water portability		
Uses	Twine		
	Strap		
	monofilament		
	Carpet backing		
	Rope		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16		40	ACTI A D4000
kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	35.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	12	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	4.450	MD-	ASTM D790
Impact	1450 Nominal Value	MPa Unit	Test Method

32 900 Nominal Value	J/m J/m Unit	ASTM D256A ASTM D256		
	<u> </u>	ASTM D256		
Nominal Value	Linit			
	Offic	Test Method		
45				
107	°C	ASTM D648		
165	°C	DSC		
Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.				
Recommended processing temperatures of PHT-4 are:1) tape: 204 to 260°C in barrel and 230-250°C in head2) multifilament: 210° to 230°C				
50 mm/min				
50 mm/min				
	107 165  tension test specimen according tes of PHT-4 are:1) tape: 204 to 260 50 mm/min	107 °C  165 °C  tension test specimen according to ASTM D 2146.  s of PHT-4 are:1) tape: 204 to 260°C in barrel and 230-250°C in hea		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

1.3 mm/min

Tel: +86 21 5895 8519 Phone: +86 13424755533

3.

Email: sales@su-jiao.com

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

