

Certene PHT-3

Polypropylene Homopolymer

PHT-3 is a certified prime grade Polypropylene specially designed for EXTRUSION of Water-Quench Cast Film for Slit Tape applications. PHT-3 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. PHT-3 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-3. Recommended processing temperatures of PHT-3 are: 1) tape - 210o to 220°C in barrel and 230-250°C in head, and 2) multifilament - 210° to 230°C. PHT-3 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food articles.

Typical Properties

PROPERTIES*	ASTM TEST	UNIT ENGLISH (METRIC)	NOMINAL VALUES
RESIN			
Melt Flow Rate	D 1238L	gr./10 min	3.5
Density	D 1505	gr./cm ³	0.904
Flexural Modulus ¹	D 790	psi (MPa)	205,000 (1415)
STETCHED TAPE**			
Tenacity @ Break	D 2256-A	gr/den	6
Ultimate Elongation	D 2256-A	%	<40
Draw ratio	-	-	6:1
Shrinkage @ 100°C ²	D 2259	%	1

TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS.

* - Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.

** - 2 x 100 mils, natural, non-delustred, annealed

1 - 1% secant @ 1.3 mm/min. speed.

2 - Boiling water

*** The reported values are typical and do not constitute a warranty but a guide for the diverse application possibilities.