

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 - 210° 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	3.0
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-delusted, annealed
- 1 - 1% secant @ 1.3 mm/min. speed.
- 2 - Boiling water

THIS PRODUCT DATA SHEET EFFECTIVE APRIL 2003 SUPERSEDES ALL DATA PREVIOUSLY PUBLISHED

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