



SOLTRA PPH-01

POLYPROPYLENE HOMOPOLYMER

Technical Data Sheet | FIN-X Polymers

PRODUCT DESCRIPTION

SOLTRA PPH-01 is a certified prime grade Polypropylene specially designed for extrusion of Water-Quench Cast Film for Slit Tape applications. SOLTRA PPH-01 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. SOLTRA PPH-01 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 SOLTRA PPH-01. Recommended processing temperatures of SOLTRA PPH-01 are: 1) tape-210° to 220°C in barrel and 230-250°C in head, and 2) multifilament-210° to 230°C. SOLTRA PPH-01 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food articles.

GENERAL

Category	Details
Material Status	Commercial: Active
Availability	Latin America North America
Features	Food Contact Acceptable Good Thermal Stability Homopolymer Good Processability High Purity
Uses	Carpet Backing Monofilaments Cast Film Rope Twine Heavy-duty Bags Tape
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Extrusion

TECHNICAL PROPERTIES [1]

Section	Property / condition	Nominal value	Unit	Test method
Physical	Density	0.904	g/cm ³	ASTM D1505
Physical	Melt Mass-Flow Rate (MFR), 230°C / 2.16 kg	3.0	g/10 min	ASTM D1238
Mechanical	Flexural Modulus - 1% Secant [2] (Injection Molded)	1410	MPa	ASTM D790

ADDITIONAL INFORMATION

All specimens were injection molded according to ASTM D2146 Type 1.
Ultimate Elongation Annealed, ASTM D2256-A, 100 mils: <40%.
Draw Ratio Annealed, 100 mils: 6:1.
Shrinkage @ 100°C Annealed, ASTM D2259, 100 mils, boiling water: 1%.
All tests were conducted according to ASTM D2146. Test specimen injection molded, Type 1.
Tenacity @ Break Annealed, ASTM D2256-A, 100 mils: 6 gr/den.

PROCESSING INFORMATION

Property	Nominal value	Unit
Melt Temperature	210 to 230	°C

NOTES

1. Typical properties: these are not to be construed as specifications.
2. 1.3 mm/min.

Values are typical and are not to be construed as specifications. Validate performance for the intended application before final material selection.