



SOLTRA PPH-02

POLYPROPYLENE HOMOPOLYMER

Technical Data Sheet | FIN-X Polymers

PRODUCT DESCRIPTION

SOLTRA PPH-02 is a certified prime grade Polypropylene specially designed for EXTRUSION of Water-Quench Cast Film for Slit film and Tape applications. SOLTRA PPH-02 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. SOLTRA PPH-02 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-02. Recommended processing temperatures of SOLTRA PPH-02 are: 1) tape - 204°C to 260°C in barrel and 230-250°C in head, and 2) multifilament - 210° to 230°C. SOLTRA PPH-02 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
Features	Food Contact Acceptable Good Strength Homopolymer Good Processability Good Thermal Stability Low Water Carryover Good Processing Stability High Purity
Uses	Carpet Backing Rope Twine Monofilaments Tape
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Cast Film Film Extrusion

TECHNICAL PROPERTIES [1]

Section	Property / condition	Nominal value	Unit	Test method
Physical	Density	0.905	g/cm ³	ASTM D1505
Physical	Melt Mass-Flow Rate (MFR), 230°C / 2.16 kg	4.0	g/10 min	ASTM D1238
Mechanical	Tensile Strength [2] (Yield)	35.2	MPa	ASTM D638
Mechanical	Tensile Elongation [2] (Yield)	12	%	ASTM D638
Mechanical	Flexural Modulus - 1% Secant [3]	1450	MPa	ASTM D790
Impact	Notched Izod Impact (23°C)	32	J/m	ASTM D256A
Impact	Unnotched Izod Impact (23°C)	900	J/m	ASTM D4812
Thermal	Deflection Temperature Under Load (0.45 MPa, Unannealed)	107	°C	ASTM D648
Thermal	Melting Temperature	165	°C	DSC

ADDITIONAL INFORMATION

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

PROCESSING INFORMATION

Recommended processing temperatures:

- 1) Tape: 204 to 260°C in barrel and 230 to 250°C in head.
- 2) Multifilament: 210° to 230°C.

NOTES

1. Typical properties: these are not to be construed as specifications.
2. 50 mm/min.
3. 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.