

CERTENE™ PHT-3

Polypropylene Homopolymer
Muehlstein

Message:

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.

General Information			
Features	High purity		
	Homopolymer		
	Workability, good		
	Thermal stability, good		
	Compliance of Food Exposure		
Uses	Twine		
	Strap		
	monofilament		
	Carpet backing		
	cast film		
	Rope		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.904	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 1% Secant ¹ (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: 6:1Shrinkage @ 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			
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 230	°C	
NOTE			

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

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

