CERTENE PHS-1

Polypropylene Homopolymer

Muehlstein

Message:

PHS-1 is a certified prime grade Polypropylene specially designed for EXTRUSION of Water-Quench Cast Film for Slit Tape applications. PHS-1 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. PST-1 applications include stretched tapes for textile Tape & Raffia uses, such as strapping tape, woven industrial sacks, carpet backing, tarpaulins and geotextiles. Recommended processing temperatures of PHS-1 are: 1) tape - 210° to 220°C in barrel and 230-250°C in head, and 2) multifilament - 210° to 230°C. PHS-1 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	Food Contact Acceptable			
	Good Processability			
	Good Strength			
	Good Thermal Stability			
	High Purity			
	Homopolymer			
	Low Water Carryover			
	Carrack Basking			
Uses	Carpet Backing			
	Cast Film			
	Monofilaments			
	Rope			
	Strapping _			
	Tape			
	Textile Applications			
	Twine			
Agency Ratings	FDA 21 CFR 177.1520			
Forms	Pellets			
Processing Method	Cast Film			
	Extrusion			
Physical	Nominal Value	Unit	Test Method	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	1.3	g/10 min	ASTM D1238	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale, Injection Molded)	101		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ¹ (Yield, Injection Molded)	33.1	MPa	ASTM D638	

Tensile Elongation ² (Yield, Injection			
Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection	on		
Molded)	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-5°C, 81.3 mm,			
Injection Molded)	27	J/m	ASTM D256A
Additional Information	Nominal Value	Unit	
Processing Temperature			
Multifilaments	210 to 230	°C	
Tape ⁴	210 to 220	°C	
Tape ⁵	230 to 250	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		
4.	Barrel		
5.	Head		

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