CERTENE™ PHF-8E

Polypropylene Homopolymer

Muehlstein

Message:

PHF-8E is a certified prime grade Polypropylene specially designed for non-oriented Tubular Film EXTRUSON by Water Quench - TQ - process. PHF-8E combines excellent processability and good melt thermal stability, with films exhibiting sparkling clarity, good impact strength, easy open ability, stiffness, good barrier to fats and oils, and good chemical resistance. PHF-8E applications include film for articles requiring excellent see-through clarity such as textiles, soft goods and pastries, pre-cooked foods sterilizable bags, bags to pack cooked foods, and wrapping paper products. PHF-8E contains high slip and medium antiblock, and its recommended processing temperature is between 210° to 230°C. PHF-8E complies with FDA regulation 21CFR 177.1520 (a)(1) (b) (c)1.1, and most international regulations concerning Polypropylene use in contact with food articles.

General Information	
Additive	High Slip Medium Antiblock
Features	Food Contact Acceptable Good Chemical Resistance Good Impact Resistance Good Processability Good Stiffness Good Thermal Stability High Clarity High Slip Homopolymer Medium Antiblocking
Uses	Bags Food Packaging Packaging
Agency Ratings	FDA 21 CFR 177.1520(a) 1 FDA 21 CFR 177.1520(b) FDA 21 CFR 177.1520(c) 1.1
Forms	Pellets
Processing Method	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.907	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method

Flexural Modulus - 1% Secant (Injection Molded)	1550	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus [1]			ASTM D882
1% Secant, MD : 32 µm	689	MPa	
1% Secant, TD : 32 µm	689	MPa	
Tensile Strength [2]			ASTM D882
MD : Break, 32 µm	55.2	MPa	
TD : Break, 32 µm	37.9	MPa	
Tensile Elongation [3]			ASTM D882
MD : Break, 32 µm	500	%	
TD : Break, 32 µm	550	%	
Elmendorf Tear Strength [4]			ASTM D1922
MD : 32 µm	40	g	
TD : 32 µm	40	g	
Spencer Impact [5] (31.8 µm)	400	g	ASTM D3420
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss [6] (45°, 31.8 µm)	85		ASTM D2457
Haze [7] (31.8 µm)	2.0	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	210 to 230	°C	
NOTE			
1.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		
2.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		
3.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		
4.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		
5.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		
6.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		
7.	1.25 mils (31 µm) film, melt temperature 410-450°F (210-230°C), blow-up-ratio 1.5:1		

Recommended distributors for this material

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