CERTENE™ PHF-8

Polypropylene Homopolymer

Muehlstein

Message:

PHF-8 is a certified prime grade Polypropylene specially designed for Film EXTRUSON by Tubular Water Quench - TWQ - process. PHF-8 combines excellent processability and good melt thermal stability, with films exhibiting clarity, good impact strength, modulus, good barrier to fats and oils, and good chemical resistance. PHF-8 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 paper over-wrap products. PHF-8 recommended processing temperature is between 210° to 230°C. PHF-8 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			
Features	Food Contact Acceptable Good Chemical Resistance Good Impact Resistance Good Processability Good Thermal Stability High Clarity Homopolymer		
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)	1380	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	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [4] (Injection Molded)	32	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [5] (0.45 MPa, Unannealed, Injection Molded)	102	°C	ASTM D648
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.	Testing performed on ASTM D 638 Type I specimen, molded in accordance with ASTM D 4101.		
5.	Testing performed on ASTM D 638 Type I specimen, molded in accordance with ASTM D 4101.		
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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