

# CERTENE™ PHO-2

Polypropylene Homopolymer  
Muehlstein

Message:

PHO-2 is a certified prime grade Polypropylene designed for high speed cast-extrusion of high clarity Biaxially Oriented films. PHO-2 combines very good processability and thermal stability with excellent cleanness, homogeneity and stability of melt minimizing potential film thickness variations and die "plate-out". PHO-2 films exhibit outstanding opticals, excellent balance of mechanical properties, good stiffness, high barrier to fats and oils, and good chemical resistance. PHO-2 applications include films for high quality textile packaging: shirts, blankets and hosiery, packaging of bakery products and snacks, and heat sterilization packaging. PHO-2 complies with FDA regulation 21CFR 177.1520 and most international regulations concerning the use of Polypropylene in contact with food.

General Information			
Features	Rigid, good		
	Optical		
	High melt stability		
	Homopolymer		
	Workability, good		
	Good chemical resistance		
	Oil resistance		
	Definition, high		
	Thermal stability, good		
	Compliance of Food Exposure		
Barrier resin			
Uses	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.904	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 1% Secant <sup>1</sup> (Injection Molded)	1520	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
secant modulus <sup>2</sup>			ASTM D882
1% secant, MD: 32 µm	138	MPa	ASTM D882
1% secant, TD: 32 µm	138	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 32 µm	89.6	MPa	ASTM D882
TD: Broken, 32 µm	41.4	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Broken, 32 μm	470	%	ASTM D882
TD: Broken, 32 μm	800	%	ASTM D882
Dart Drop Impact (32 μm, Cast Film)	45	g	ASTM D1709A
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	85		ASTM D2457
Haze (31.8 μm, Cast Film)	1.7	%	ASTM D1003
Additional Information			
All specimens were injection molded according to ASTM D2146 Type 1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	230 - 250	°C	
NOTE			
1.	1.3 mm/min		
2.	1.3 mm/min		

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#### Recommended distributors for this material

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