

# CERTENE™ PHF-2

High Melt Strength Polypropylene  
Muehlstein

Message:

PHF-2 is a certified prime grade Polypropylene designed for high speed cast extrusion of clarity films and sheet. PHF-2 combines very good processability and melt thermal stability, with excellent clarity, good melt strength, high tensile strength and low fibrillation tendency. PHF-2 applications include sheet extrusion for Solid Phase Pressure Forming (SPPF), high clarity thermoformed containers and slit-tapes. PHF-2 processing temperature is between 230° to 250°C. PHF-2 complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food. Specific certificates are available upon request.

General Information	
Features	High tensile strength Homopolymer Workability, good Good melt strength Definition, high Thermal stability, good Compliance of Food Exposure
Uses	Strap Sheet Thermoformed container
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Casting Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.904	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Injection Molded)	34.5	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	43	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	93.0	°C	ASTM D648
Vicat Softening Temperature	153	°C	ASTM D1525

#### Additional Information

All specimens were injection molded according to ASTM D2146 Type 1.

Injection	Nominal Value	Unit
Processing (Melt) Temp	110 - 121	°C

#### NOTE

1. 50 mm/min
2. 50 mm/min
3. 1.3 mm/min

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#### Recommended distributors for this material

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