

CERTENE™ PHS-2

Polypropylene Homopolymer

Muehlstein

Message:

PHS-2 is a certified prime grade Homopolymer specially designed for extrusion of sheet for thermoforming processes. PHS-2 contains a nucleating agent featuring high clarity and excellent melt strength. PHS-2 complies with FDA regulation 21CFR 177.1520(c) 3.2a concerning the Polypropylene use in contact with food articles.

General Information	
Additive	Nucleating agent
Features	Nucleated
	Homopolymer
	Good strength
	Definition, high
	Compliance of Food Exposure
Uses	Sheet
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Forms	Particle
Processing Method	Sheet extrusion molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.901	g/cm ³	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
Tensile Strength ¹ (Yield)	35.2	MPa	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³	1590	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-5°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	103	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Haze	14	%	ASTM D1003

Additional Information
Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.
NOTE

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

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