


TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 7450HC

Technical Data Sheet
Polypropylene – Random Copolymer
Produced in the United States

Description

Polypropylene 7450HC Low catalyst results in improved color stability.

Clarity/Impact: 7450HC improves its clarity and impact resistance over conventional homopolymer films.

Heat Sealable: 7450HC makes it suitable as a heat seal layer for oriented films.

Slip/Antiblock: 7450HC is formulated with a high level of antiblock additive for improved film handling.

FDA: 7450HC complies with all applicable FDA regulations for food contact applications.

Applications: 7450HC is recommended for use in either non-oriented cast film processes for manufacture of packaging films that require improved optical and impact properties, or as a heat seal layer for oriented films.

Processing: 7450HC resin processes on film extrusion equipment with typical melt temperatures of 450°F-525°F (232°C-274°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	5.0
Film Properties, Non-Oriented⁽¹⁾			
Ultimate Tensile	D-882	psi (MPa)	4,000 (28)
1% Secant Modulus	D-882	psi (MPa)	80,000 (550)
Elongation at Break	D-882	%	400
MVTR @ 100°F, 90% RH	E-96	g/100 sq-in/24 hrs/mil	0.7
Dart Impact (F50)	D-1709	g/mil	45
Haze	D-1003	%	3
Gloss, 45°	D-2457	%	80
Heat Seal Temperature	F-88 ⁽³⁾	°F (°C)	270 (132)
Thermal Properties⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	289 (143)
Other Physical Properties			
Density	D-1505	g/cc	0.90

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.
(3) Minimum seal strength is 200 g/inch at 15 psi pressure and 1 sec.

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