Polypropylene Z9450

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

TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

Polypropylene Z9450 is a low melting, high ethylene random copolymer with improved color, optics and impact properties.

Heat Sealable: The very low melting point of Z9450 makes it an excellent heat seal layer for oriented films.

FDA: Z9450 is recommended for use in non-oriented film processes for manufacture of packaging films that require improved optical and impact properties and as a heat seal layer for oriented films.

Recommended Applications: Z9450 is recommended for use in non-oriented film processes for manufacture of packaging films that require improved optical and impact properties and as a heat seal layer for oriented films.

Processing: Z9450 resin processes on film extrusion equipment with typical melt temperatures of 380°F-440°F (193°C-227°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	5
Film Properties, Non Oriented[1][2][3]			
Haze	D-1003	%	2
Gloss, 45°	D-2457	%	85
Ultimate Tensile	D-882	psi (MPa)	2,500 (17)
1% Secant Modulus	D-882	psi (MPa)	50,000 (345)
WVTR @ 100°F, 90% RH	F-1249-90	g/100 sq. in./24 hrs./mil	1.2
Melting Point	DSC	°F (°C)	264 (129)
Dart Impact (F50)	D-1709	g/mil	270
Heat Seal Temperature		°F (°C)	234 (112)
Other Physical Properties			
Density	D-1505	g/cc	0.89

(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.

Rev: Sept 2021

Polypropylene

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