Polypropylene 8573

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

TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

Polypropylene 8573 is a low melting, high ethylene random copolymer with improved color, optics and impact properties.

Heat Sealable: The low melting point of 8573 makes it a very good heat seal layer for oriented films.

Slip/Antiblock: 8573 is available with custom slip and antiblock packages.

Regulatory: 8573 has passed USP Class VI testing, and all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). 8573 complies with all applicable FDA regulations for food contact applications.

Applications. 8573 is recommended for use in non-oriented cast film processes for manufacture of packaging films that require improved optical and impact properties and as a heat seal layer for oriented films.

Processing. 8573 resin processes on film extrusion equipment with typical melt temperatures of 390°F-450°F (199°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	6.8
Film Properties, Non-Oriented(1)			
Ultimate Tensile	D-882	psi (MPa)	3,000 (20)
Elongation at Break	D-882	%	500
1% Secant Modulus	D-882	psi (MPa)	70,000 (483)
MVTR @ 100°F, 90% RH	E-96	g/100 sq-in/24 hrs/mil	0.9
Haze	D-1003	%	2
Gloss, 45°	D-2457	%	85
Dart Impact (F50)	D-1709	g/mil	240
Heat Seal Temperature	SIT(3)	°F (°C)	244 (118)
Thermal Properties(1)(2)			
Melting Point	DSC	° F (°C)	275 (135)
Other Physical Properties			
Density	D-1505	g/cc	0.895

(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.

Rev: Sept 2021

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