



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

# Polypropylene 8473

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

## Description

**Polypropylene 8473** is a low melting, high ethylene random copolymer with improved color, optics and impact properties.

**Heat Sealable:** The very low melting point of 8473 makes it an excellent heat seal layer for oriented films.

**FDA:** 8473 complies with all applicable FDA regulations Title 21 CFR Section 177.1520(c) 3.1 and may be used under these provisions for food contact and packaging.

**Recommended Applications:** 8473 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:** 8473 resin processes on film extrusion equipment with typical melt temperatures of 390°F-450°F (199°C-232°C).

## Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	4.6
<b>Film Properties, Non-Oriented<sup>(1)</sup></b>			
Ultimate Tensile	D-882	psi (MPa)	3,000 (20)
Elongation at Break	D-882	%	500
1% Secant Modulus	D-882	psi (MPa)	50,000 (345)
MVTR	E-96	g/100 sq-in/24 hrs/mil @ 100°F, 90% RH	0.9
Haze	D-1003	%	2
Gloss, 45°	D-2457	%	85
Dart Impact (F50)	D-1709	g/mil	240
Heat Seal Temperature	SIT <sup>(3)</sup>	°F (°C)	248 (120)
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	273 (134)
<b>Other Physical Properties</b>			
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

(3) Minimum seal strength is 200 g/inch at 15 psi pressure and 1 sec.

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.