# Polypropylene Z9450

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

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** | | | |
| Flexural Modulus | D-790 | psi (MPa) | 70,000 (500) |
| Tensile Modulus | D-638 | psi (MPa) | 101,000 (700) |
| Tensile Strength (Yield) | D-638 | psi (MPa) | 2,700 (20) |
| Tensile Elongation (Yield) | D-638 | % | 11 |
| Izod (73°F, Notched) | D-256A | ft*lb/in | 2.30 |
| **Thermal Properties**[1][2] | | | |
| Melting Point | DSC | °F (°C) | 264 (129) |
| Heat Deflection Temperature @ 66 psi | D-648 | °F (°C) | 140 (60) |
| **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.

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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.

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