

## Product Datasheet



# Exact™ 3237RK

## Ethylene-based Plastomer Resin

### Product Description

Exact™ 3237RK is an ethylene 1-hexene plastomer designed for use in both monolayer and multilayer film applications. Films made from Exact™ 3237RK have a much lower seal initiation temperature than the density suggests along with high toughness, high stiffness and low COF on hot metal surfaces. The overall combination of properties contributes to enhanced packaging line speeds. TnPP is not intentionally added to Exact™ 3237RK.

### General

|                           |                                                                                                  |                                                                                                                    |                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul> | <ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>                                    | <ul style="list-style-type: none"> <li>North America</li> </ul>                                      |
| Additive                  | <ul style="list-style-type: none"> <li>Antiblock: 5000 ppm</li> <li>Slip: 1000 ppm</li> </ul>    | <ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>Alternative Processing Aid: Yes</li> </ul> |                                                                                                      |
| Applications              | <ul style="list-style-type: none"> <li>Barrier Food Packaging</li> <li>Blown Film</li> </ul>     | <ul style="list-style-type: none"> <li>Food Packaging</li> <li>Freezer Film</li> </ul>                             | <ul style="list-style-type: none"> <li>Lamination Film</li> <li>Multilayer Packaging Film</li> </ul> |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                        |                                                                                                                    |                                                                                                      |
| Revision Date             | <ul style="list-style-type: none"> <li>04/04/2023</li> </ul>                                     |                                                                                                                    |                                                                                                      |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density / Specific Gravity | 0.908 g/cm <sup>3</sup> | 0.908 g/cm <sup>3</sup> | ASTM D792         |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min            | 2.0 g/10 min            | ASTM D1238        |
| Peak Melting Temperature   | 237 °F                  | 114 °C                  | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 194 °F                  | 90 °C              | ASTM D1525    |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD  | 860 psi                 | 5.9 MPa            | ASTM D882         |
| Tensile Strength at Yield TD  | 790 psi                 | 5.4 MPa            | ASTM D882         |
| Tensile Strength at Break MD  | 8600 psi                | 60 MPa             | ASTM D882         |
| Tensile Strength at Break TD  | 8200 psi                | 60 MPa             | ASTM D882         |
| Elongation at Break MD        | 480 %                   | 480 %              | ASTM D882         |
| Elongation at Break TD        | 570 %                   | 570 %              | ASTM D882         |
| Secant Modulus MD - 1% Secant | 13000 psi               | 87 MPa             | ASTM D882         |
| Secant Modulus TD - 1% Secant | 13000 psi               | 90 MPa             | ASTM D882         |
| Dart Drop Impact              | 800 g                   | 800 g              | ASTM D1709A       |
| Elmendorf Tear Strength MD    | 210 g                   | 210 g              | ASTM D1922        |
| Elmendorf Tear Strength TD    | 280 g                   | 280 g              | ASTM D1922        |
| Puncture Force                | 13 lbf                  | 57 N               | ExxonMobil Method |
| Puncture Energy               | 56 in-lb                | 6.3 J              | ExxonMobil Method |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°)        | 35                      | 35                 | ASTM D2457    |
| Haze               | 18 %                    | 18 %               | ASTM D1003    |

### Legal Statement

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

## Product Datasheet

**ExxonMobil**

Exact™ 3237RK  
Ethylene-based Plastomer Resin

**Processing Statement**

Film (1 mil/25.4 micron) made on a 2.6 inch (65mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 400-420°F (204-216°C), a 60mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79kg/hr/cm).

**Notes**

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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