

Exceed™ XP 6056RA

Performance Polymer

Product Description

Exceed™ XP 6056RA is an eXtreme Performance linear low density polyethylene 1-hexene copolymer that is especially designed to have good melt strength and excellent tensile, impact, and puncture properties. The combination of high toughness, melt stability and good sealing performance makes this grade a versatile blown film resin. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ XP 6056RA. Exceed™ XP 6056RA - when eXtreme Performance matters.

General

| | | | |
|---------------------------|--|---|---|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Additive | <ul style="list-style-type: none"> Antiblock: No Slip: No | <ul style="list-style-type: none"> Thermal Stabilizer: Yes Alternative Processing Aid: Yes | |
| Applications | <ul style="list-style-type: none"> Construction Liners Food Packaging Geomembrane | <ul style="list-style-type: none"> Greenhouse Film Heavy Duty Bags Lamination Film | <ul style="list-style-type: none"> Shrink Film |
| Form(s) | <ul style="list-style-type: none"> Pellets | | |
| Revision Date | <ul style="list-style-type: none"> 04/19/2024 | | |

Resin Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density / Specific Gravity | 0.916 g/cm ³ | 0.916 g/cm ³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 0.50 g/10 min | 0.50 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 228 °F | 109 °C | ExxonMobil Method |

Film Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 1300 psi | 8.7 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1400 psi | 9.5 MPa | ASTM D882 |
| Tensile Strength at Break MD | 8500 psi | 60 MPa | ASTM D882 |
| Tensile Strength at Break TD | 8600 psi | 60 MPa | ASTM D882 |
| Elongation at Break MD | 390 % | 390 % | ASTM D882 |
| Elongation at Break TD | 710 % | 710 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 24000 psi | 160 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 29000 psi | 200 MPa | ASTM D882 |
| Dart Drop Impact ² | 510 g | 510 g | ASTM D1709 |
| Elmendorf Tear Strength MD | 80 g | 80 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 460 g | 460 g | ASTM D1922 |
| Puncture Force | 13 lbf | 58 N | ExxonMobil Method |
| Puncture Energy | 39 in·lb | 4.4 J | ExxonMobil Method |

Optical Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 59 | 59 | ASTM D2457 |
| Haze | 7.1 % | 7.1 % | ASTM D1003 |

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Legal Statement

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

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Exceed™ XP 6056RA can in principle be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

Processing Statement

Film (1 mil/25.4 micron) made on a 2.5 inch blown film line equipped with 2.5:1 blow-up ratio, 30 mil die gap, 18 inch frostline, 407°F melt temperature and 10lbs/die in/hr.

Notes

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

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

² Dart Head Type C

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