Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Tough+ m 0814.RK

Metallocene Polyethylene

Product Description

Exceed™ Tough+ m 0814.RK is an eXtreme Performance ethylene 1-hexene copolymer that offers step-out toughness and easy processing for a range of blown film applications. The combination of high toughness, easy processing and excellent sealing performance make this a very versatile packaging film resin. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ Tough+ m 0814.RK. Exceed™ Tough+ m 0814.RK - when eXtreme Performance matters.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Antiblock: 5000 ppm ▪ Slip: 1000 ppm	▪ Thermal Stabilizer: Yes ▪ Alternative Processing Aid: Yes	
Applications	▪ Barrier Film ▪ Freezer Film	▪ Laminated Sacks ▪ Liquid Packaging	▪ Sachet
Form(s)	▪ Pellets		
Revision Date	▪ 04/19/2024		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.914	g/cm³	0.914	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.80	g/10 min	0.80	g/10 min	ASTM D1238
Peak Melting Temperature	250	°F	121	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1300	psi	8.6	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.4	MPa	ASTM D882
Tensile Strength at Break MD	9200	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	8000	psi	50	MPa	ASTM D882
Elongation at Break MD	330	%	330	%	ASTM D882
Elongation at Break TD	620	%	620	%	ASTM D882
Secant Modulus MD - 1% Secant	24000	psi	170	MPa	ASTM D882
Secant Modulus TD - 1% Secant	31000	psi	210	MPa	ASTM D882
Dart Drop Impact	910	g	910	g	ASTM D1709A
Elmendorf Tear Strength MD	310	g	310	g	ASTM D1922
Elmendorf Tear Strength TD	460	g	460	g	ASTM D1922
Puncture Force	12	lbf	55	N	ExxonMobil Method
Puncture Energy	37	in·lb	4.2	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	34		34		ASTM D2457
Haze	20	%	20	%	ASTM D1003

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™ Tough+ m 0814 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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

ExxonMobil

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Processing Statement

Film (1mil/25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 390-410°F (199-210°C) ,a 90 mil (2.29mm) die gap at a rate of 15 lbs/hr/in die circumference (2.68 kg/hr/cm).

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.

For additional technical, sales and order assistance: Contact Us

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