ExonMobil

Exceed[™] 2018RA Performance Polymer

Product Description

Exceed[™] 2018RA is an ethylene 1-hexene copolymer resin. Films that incorporate Exceed[™] 2018RA can enable outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, highlight a very versatile packaging film resin. The higher melt index also makes this polymer resin suitable for blending into LDPE rich films. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed[™] 2018RA.

General				
Availability ¹	 Africa & Middle East 	 Asia Pacific 	 Europe 	2
Additive	 Antiblock: No 	 Thermal Stabilizer: Yes 		
	 Slip: No 	 Alternative Processing Aid: 	Yes	
Applications	 Bag in Box Barrier Food Packaging Blown Film Blown Stretch Film Bread Bags Food Packaging 	 Form Fill And Seal Packaging Freezer Film General Packaging Heavy Duty Bags Lamination Film Multilayer Packaging Film Overwrap Film Packaging Films Premium Trash Bags Stand Up Pouches Trash Bags 		
Form(s)	 Pellets 			
Revision Date	• 04/19/2024			
		Turierl\/elue		Test Deced On
Resin Properties Density / Specific Gravity	Typical Value (English) 0.918 g/cm ³	Typical Value 0.918		Test Based On ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10 mir		g/10 min	ASTM D792 ASTM D1238
Peak Melting Temperature	2.0 g/101111 243 °F	1 2.0	-	ExxonMobil
	245 F	117	C	Method
Thermal	Typical Value (English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	223 °F	106		ExxonMobil Method
ilm Properties	Typical Value (English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1300 psi	9.1	MPa	ASTM D882
Tensile Strength at Yield TD	1300 psi	9.2	MPa	ASTM D882
Tensile Strength at Break MD	8600 psi	60	MPa	ASTM D882
Tensile Strength at Break TD	8000 psi	60	MPa	ASTM D882
Elongation at Break MD	590 %	590	%	ASTM D882
Elongation at Break TD	690 %	690	%	ASTM D882
Secant Modulus MD - 1% Secant	24000 psi	170	MPa	ASTM D882
Secant Modulus TD - 1% Secant	27000 psi	180	MPa	ASTM D882
Dart Drop Impact	580 g	580	g	ASTM D1709A
Elmendorf Tear Strength MD	330 g	330	g	ASTM D1922
Elmendorf Tear Strength TD	460 g	460	g	ASTM D1922
Puncture Force	11 lbf	48	Ν	ExxonMobil Method
Puncture Energy	37 in·lb	4.1	J	ExxonMobil Method
Optical Properties	Typical Value (English)	Typical Value	(SI)	Test Based On
Gloss (45°)	18	18		ASTM D2457
Haze	> 30 %	> 30	%	ASTM D1003



Legal Statement

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

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

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.

Processing Statement

Film (1 mil/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 400-420°F (204-216°C), a 60 mil (1.52 mm) die gap at a rate of 9 lbs/hr/in die circumference (1.61 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: www.exxonmobilchemical.com/ContactUs

©2024 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com