

Product Datasheet



Exceed™ 3812PA Cast

Performance Polymer

Product Description

Exceed™ 3812PA resin is an ethylene 1-hexene copolymer. Films made from Exceed™ 3812PA resin have outstanding toughness, impact strength, and puncture. These superior strength properties make this a very versatile packaging film resin and ideally suited for stretch film. It can also be used to enhance the sealing caulkability of lower melt index materials. TnPP is not intentionally added to Exceed™ 3812PA resin.

General

Availability ¹	- Africa & Middle East - Asia Pacific	- Europe - North America
Additive	- Antiblock: No - Slip: No	- Processing Aid: No - Thermal Stabilizer: Yes
Applications	- Cast Film - Cast Stretch Film - Extrusion Coating	- Food Packaging - Form Fill And Seal Packaging - Hygiene film - Packaging Films
Revision Date	09/01/2018	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.912 g/cm ³	0.912 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	3.8 g/10 min	3.8 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	780 psi	5.3 MPa	ASTM D882
Tensile Strength at Yield TD	650 psi	4.5 MPa	ASTM D882
Tensile Strength at Break MD	6900 psi	48 MPa	ASTM D882
Tensile Strength at Break TD	6300 psi	44 MPa	ASTM D882
Elongation at Break MD	450 %	450 %	ASTM D882
Elongation at Break TD	610 %	610 %	ASTM D882
Secant Modulus MD - 1% Secant	13000 psi	87 MPa	ASTM D882
Secant Modulus TD - 1% Secant	14000 psi	97 MPa	ASTM D882
Dart Drop Impact ²	610 g	610 g	ASTM D1709A
Elmendorf Tear Strength MD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength TD	440 g	440 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	86	86	ASTM D2457
Haze	2.7 %	2.7 %	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.

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.

Processing Statement

Film (0.8 mil/20 micron) made on a Black Clawson cast line at a 5.5 inch (14 cm) melt curtain length, 520-540°F (275-310°C) melt temperature, 80°F (27°C) chill roll temperature, and 770 fpm (235 mpm) line speed.

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

Product Datasheet

ExxonMobil**Exceed™ 3812PA Cast**
Performance PolymerFor 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 in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. 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