ExxonMobil

Exact™ 4006

Ethylene-based Plastomer Resin

Product Description

Exact™ 4006 is an ethylene 1-butene plastomer produced using ExxonMobil Chemical's EXXPOL® Technology. This resin is designed for specialty applications requiring moderate flow. This resin is supplied with a primary antixoidant for protection against thermal oxidation.

General

Availability [1]	▪ Latin America	▪ North America
Additive	▪ Thermal Stabilizer: Yes	
Applications	▪ Wire and Cable Compounds	
Form(s)	▪ Pellets	
Revision Date	▪ 04/01/2020	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.880	g/cm³	0.880	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Peak Melting Temperature	149	°F	65	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	109	°F	43.0	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break [2]					ExxonMobil Method
2.0 in/min (50 mm/min)	> 1400	psi	> 9.5	MPa	
Elongation at Break [2] (2.0 in/min (50 mm/min))	> 800	%	> 800	%	ExxonMobil Method
Flexural Modulus - 1% Secant					ExxonMobil Method
Procedure A, 0.051 in/min (1.3 mm/min)	3100	psi	21	MPa	
Procedure B, 0.51 in/min (13 mm/min)	3500	psi	24	MPa	
Environmental Stress-Crack Resistance					ExxonMobil Method
10% Igepal, F0	> 1000	hr	> 1000	hr	
Durometer Hardness					ExxonMobil Method
Shore A, 15 sec	79		79		
Shore D, 15 sec	20		20		

Electrical	Typical Value (English)	Typical Value (SI)	Test Based On
Dielectric Constant (1 MHz)	2.1	2.1	ExxonMobil Method
Dissipation Factor (1 MHz)	1E-2	1E-2	ExxonMobil Method

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.

Processing Statement

- Physical properties were measured on compression molded specimens based on ASTM D4703C.
- Tensile testing was conducted at a crosshead speed of 2 in/min.
- Dielectric constant and dissipation factor were measured using the micrometer electrode method with a 75 mil, 2" circular disc.

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] All specimens reached extension limit, did not break.

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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