

ExxonMobil EXACT™ 4053 Cast Plastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polyethylene (PE)

Material Notes:

Product Description: Exact 4053 is an ethylene-based butene plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. This resin is designed primarily for use in blends with polyolefines to improve the heat sealing performance and/or toughness in film applications. Exact 4053 contains no antioxidants. Availability: Latin America, North America and South America Additive: Antiblock: NoSlip: No Thermal Stabilizer: NoApplications:Blend PartnerCast Film Data provided by the manufacturer, Exxon Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-EXACT-4053-Cast-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.888 g/cc	0.0321 lb/in³	Exxon Method
Melt Flow	2.2 g/10 min	2.2 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	4.34 MPa	630 psi	ASTM D882
Film Tensile Strength at Yield, TD	3.24 MPa	470 psi	ASTM D882
Film Elongation at Break, MD	440 %	440 %	ASTM D882
Film Elongation at Break, TD	820 %	820 %	ASTM D882
Film Elongation at Yield, MD	10 %	10 %	ASTM D882
Film Elongation at Yield, TD	10 %	10 %	ASTM D882
Puncture Energy	6.21 J	4.58 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	30 g	30 g	ASTM D1922
Elmendorf Tear Strength TD	90 g	90 g	ASTM D1922
Dart Drop Test	120 g	0.265 lb	ASTM D1709A
Film Tensile Strength at Break, MD	64.8 MPa	9400 psi	ASTM D882
Film Tensile Strength at Break, TD	46.2 MPa	6700 psi	ASTM D882
1% Secant Modulus, MD	36.5 MPa	5300 psi	ASTM D882
1% Secant Modulus, TD	35.9 MPa	5200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	70.0 °C	158 °F	Exxon Method

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	0.50 %	0.50 %	ASTM D1003
Gloss	89 %	89 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	15 lbf	ExxonMobil Method

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