ExxonMobil™ LLDPE LL 3002.32

Linear Low Density Polyethylene Resin

Product Description

LL 3002.32 is a hexene copolymer LLDPE cast film resin. Films made from LL 3002.32 resin have outstanding tensile and toughness properties. These superior properties, along with the excellent drawability, make it a versatile packaging film resin.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film	▪ Cast Stretch Film	▪ Packaging Films

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.917	g/cm³	0.917	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	255	°F	124	°C	ExxonMobil Method

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	201	°F	94	°C	ASTM D1525

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1100	psi	7.9	MPa	ASTM D882
Tensile Strength at Yield TD	1200	psi	8.1	MPa	ASTM D882
Tensile Strength at Break MD	7500	psi	50	MPa	ASTM D882
Tensile Strength at Break TD	4900	psi	34	MPa	ASTM D882
Elongation at Break MD	460	%	460	%	ASTM D882
Elongation at Break TD	770	%	770	%	ASTM D882
Secant Modulus MD - 1% Secant	20000	psi	140	MPa	ASTM D882
Secant Modulus TD - 1% Secant	22000	psi	150	MPa	ASTM D882
Dart Drop Impact	90	g	90	g	ASTM D1709A
Elmendorf Tear Strength MD	270	g	270	g	ASTM D1922
Elmendorf Tear Strength TD	600	g	600	g	ASTM D1922
Puncture Force	9	lbf	40	N	ExxonMobil Method
Puncture Energy	30	in·lb	3.4	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	90		90		ASTM D2457
Haze	2.5	%	2.5	%	ASTM D1003