ExxonMobil™ LLDPE LL 5100.09

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 5100.09 is a linear low density polyethylene resin designed to provide good processability and ease of blending. The granular form of LL 5100.09 makes for efficient blending with pigments, slip additives, and antiblock additives.

General

Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes
Applications	▪ Masterbatch Base Resin	
Form(s)	▪ Granules	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.925	g/cm³	0.925	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Peak Melting Temperature	250	°F	121	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	189	°F	87	°C	ASTM D1525

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	2200	psi	16	MPa	ASTM D638
Tensile Strength at Break	1300	psi	9.2	MPa	ASTM D638
Elongation at Break	60	%	60	%	ASTM D638
Flexural Modulus - 1% Secant	60000	psi	410	MPa	ASTM D790
Durometer Hardness (Shore D, 15 sec)	47		47		ASTM D2240

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	10	ft·lb/in	550	J/m	ASTM D256A

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