ExxonMobil™ LDPE LD 503.LP

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 503.LP is an LDPE homopolymer resin that is suitable for use in molding, extrusion, compounding and foam applications.

General

Additive	▪ Antiblock: No	▪ Slip: 200 ppm	▪ Thermal Stabilizer: No
Applications	▪ Foams	▪ Injection Molding	
Form(s)	▪ Pellets		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.3	g/10 min	2.3	g/10 min	ASTM D1238
Peak Melting Temperature	230	°F	110	°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	1700	psi	12	MPa	ASTM D638
Tensile Strength at Break	1400	psi	9.8	MPa	ASTM D638
Elongation at Yield	20	%	20	%	ASTM D638
Elongation at Break	310	%	310	%	ASTM D638
Flexural Modulus - 1% Secant	31000	psi	220	MPa	ASTM D790
Durometer Hardness					ASTM D2240
Shore A, 15 sec	94		94		
Shore D, 15 sec	43		43		

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Instrumented Dart Impact					ASTM D3763
-40°F (-40°C)	16	ft·lb	22	J	
73°F (23°C)	13	ft·lb	18	J	

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

The test specimens were prepared using ASTM D4703, Procedure C.

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.