

ExxonMobil™ LDPE LD 637.LI

Low Density Polyethylene Resin

ExxonMobil Chemical

Message:

LD 637.LI is a low density polyethylene homopolymer with high melt index, which is used for injection molding or granulation purposes requiring high fluidity. It can be ideally used for screw caps and easy-to-open caps. It can also be used for mixing and concentration.

General Information			
Additive	Sliding agent (550 ppm)		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 15 seconds	88		ASTM D2240
Shaw D, 15 seconds	43		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	12.3	MPa	ASTM D638
Fracture	7.58	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	30	%	ASTM D638
Fracture	110	%	ASTM D638
Flexural Modulus - 1% Secant	279	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
0°C	21.7	J	ASTM D3763
23°C	19.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ASTM D1525
Legal statement			

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