ExxonMobil Chemical

ExxonMobil LDPE

LD 506.07

Molding, Extrusion, and Compounding Resin

Description

ExxonMobil LD 506.07 is a high flow, LDPE homopolymer designed to provide good processability. It is suitable for use in making color concentrates and injection molded articles.

Applications

- Color concentrates
- Injection molded housewares

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 506.07	No	No	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	33 g/10 min	
Density	ExxonMobil Method	0.921 g/cm^3	
Peak Melting Temperature	ExxonMobil Method	110 °C	230 °F

Molded Properties			
Flexural Modulus, 1% Secant	ASTM D 790	250 MPa	36200 psi
Tensile Strength at Yield	ASTM D 638	12.3 MPa	1790 psi
Tensile Strength at Break	ASTM D 638	8.1 MPa	1170 si
Elongation at Yield	ASTM D 638	20 %	
Elongation at Break	ASTM D 638	130 %	
Vicat Softening Point	ASTM D 1525	91 °C	196 °F
Shore Hardness – A (15s) D (15s)	ASTM D 2240	81 49	
Instrumented Impact at 23 °C Total Energy	ASTM D 3763	16 J	12 ft-lb
Instrumented Impact at -20 °C Total Energy	ASTM D 3763	24 J	18 ft-lb

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

LD 506.07 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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