

TOTAL Polyethylene LDPE LD 0304

Low Density Polyethylene
TOTAL Refining & Chemicals

Message:

LDPE LD 0304 is a low density polyethylene made by a high pressure autoclave process without antioxidant.
Application examples: coating of paper, paperboard, aluminium, ...

General Information			
Uses	Coating application		
	Paper coating		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Extrusion coating		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.924	g/cm ³	ISO 1183
--	923	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Melt volume-flow rate (190°C/2.16 kg)	5.50	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	0.010	%	ISO 62 ³
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	250	MPa	ISO 527-2
--	220	MPa	ISO 527-2 ⁴
Tensile Stress			
Yield	11.0	MPa	ISO 527-2
Fracture	13.0	MPa	ISO 527-2
Tensile Strain			
Yield	15	%	ISO 527-2 ⁵
Fracture	550	%	ISO 527-2
Tensile Elongation at Break	> 50	%	ISO 527-2 ⁶
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	95.0	°C	ISO 306
50°C/h, B (50N)	94.0	°C	ISO 306 ⁷
Melting Temperature (DSC)			
--	111	°C	ISO 3146
-- ⁸	112	°C	ISO 11357-3 ⁹

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093 ¹⁰
Volume Resistivity	> 1.0E+13	ohms·m	IEC 60093 ¹¹
Relative Permittivity (100 Hz)	2.00		IEC 60250 ¹²
Dissipation Factor			IEC 60250 ¹³
100 Hz	2.0E-4		IEC 60250
1 MHz	2.0E-4		IEC 60250
Comparative Tracking Index	600		IEC 60112 ¹⁴
Flammability	Nominal Value	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB		ISO 1210 ¹⁵
Oxygen Index	18	%	ISO 4589-2 ¹⁶
Additional Information			
The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357.			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200 - 320	°C	
Cylinder Zone 2 Temp.	200 - 320	°C	
Cylinder Zone 3 Temp.	200 - 320	°C	
Cylinder Zone 4 Temp.	200 - 320	°C	
Cylinder Zone 5 Temp.	200 - 320	°C	
Die Temperature	260 - 320	°C	
NOTE			
1.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
2.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
3.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
4.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
5.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
6.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
7.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
8.	10 °C/min		
9.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
10.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
11.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		
12.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???		

13.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
14.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
15.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
16.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

