

Technical Information



DOW™ LDPE 641I

Low Density Polyethylene Film

Overview

- Resin for general purpose liner application
 - Optimum gauge range: 0.8-3.0 mil
 - Complies with U.S. FDA 21 CFR 177.1520(c)2.1
- Consult the regulations for complete details

Additive

- Antiblock: 1250 ppm
- Slip: 700 ppm

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.922 g/cm ³	0.922 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Film Puncture Resistance	35.0 ft-lb/in ³	2.90 J/cm ³	
Film Toughness			ASTM D882
MD	1920 ft-lb/in ³	159 J/cm ³	
TD	2230 ft-lb/in ³	184 J/cm ³	
Secant Modulus			ASTM D882
2% Secant, MD	26200 psi	181 MPa	
2% Secant, TD	30000 psi	207 MPa	
Tensile Strength			ASTM D882
MD : Yield	1790 psi	12.3 MPa	
TD : Yield	1760 psi	12.1 MPa	
MD : Break	3600 psi	24.8 MPa	
TD : Break	3330 psi	23.0 MPa	
Tensile Elongation			ASTM D882
MD : Break	420 %	420 %	
TD : Break	670 %	670 %	
Dart Drop Impact	150 g	150 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	500 g	500 g	
TD	280 g	280 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	207 °F	97.2 °C	ASTM D1525
Melting Temperature	232 °F	111 °C	DSC
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	66	66	ASTM D2457
Haze	8.90 %	8.90 %	ASTM D1003

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.



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PETROMALL INDUSTRY & TRADING CO

Additional Information

www.dow.com

North America

U.S. & Canada: 1-800-441-4369
1-989-832-1426
Mexico: +1-800-441-4369

Latin America

Argentina: +54-11-4319-0100
Brazil: +55-11-5188-9000
Colombia: +57-1-219-6000
Mexico: +52-55-5201-4700

Europe/Middle East

Italy: +800-3694-6367
+31-11567-2626
+800-783-825

South Africa

+800-99-5078

Asia Pacific

+800-7776-7776
+603-7965-5392

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petromall.net



info@petromall.ps



+970 599 2020 64



Hebron - Palestine

فلسطين - الخليل

+972 2 2233840

