

## Dow DOWLEX™ 2021D Linear Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE

### Material Notes:

Good processability at narrow die gaps Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-DOWLEX-2021D-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Dow-DOWLEX-2021D-Linear-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.9218 g/cc	0.03330 lb/in <sup>3</sup>	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Antiblock Level	3000 ppm	3000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.5 MPa	1530 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.8 MPa	1710 psi	ASTM D882
Film Elongation at Break, MD	577 %	577 %	ASTM D882
Film Elongation at Break, TD	670 %	670 %	ASTM D882
Secant Modulus, MD	0.1896 GPa	27.50 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.22408 GPa	32.501 ksi	2% Secant; ASTM D882
Impact	99	99	[ft-lbf/in <sup>3</sup> ]; Puncture Resistance; Dow Method
	1016	1016	[ft-lbf/in <sup>3</sup> ]; Toughness MD; ASTM D882
	1146	1146	[ft-lbf/in <sup>3</sup> ]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	788 g	788 g	ASTM D1922
Elmendorf Tear Strength TD	1169 g	1169 g	ASTM D1922
Elmendorf Tear Strength, MD	15.5 g/micron	394 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	23.01 g/micron	584.5 g/mil	ASTM D1922
Dart Drop Test	328 g	0.723 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	30.15 MPa	4373 psi	ASTM D882

<b>Film Tensile Strength at Break, TD Mechanical Properties</b>	<b>28.7 MPa Metric</b>	<b>4160 psi English</b>	<b>ASTM D882 Comments</b>
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	122 °C	252 °F	Dow Method (DSC)
Vicat Softening Point	105 °C	221 °F	ASTM D1525
<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Haze	13.1 %	13.1 %	ASTM D1003
Gloss	59.1 %	59.1 %	45°; ASTM D2457

## Contact Songhan Plastic Technology Co.,Ltd.

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