

Dow DOWLEX™ 2045.11G

For high speed, thin film applications

- Additional thermal stability
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D792
Thickness	20.3 microns	0.800 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Antiblock Level	3000 ppm	3000 ppm	
Slip Level	1200 ppm	1200 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.75 MPa	1849 psi	ASTM D882
Film Tensile Strength at Yield, TD	13.07 MPa	1895 psi	ASTM D882
Film Elongation at Break, MD	480 %	480 %	ASTM D882
Film Elongation at Break, TD	749 %	749 %	ASTM D882
Secant Modulus, MD	0.2267 GPa	32.87 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.2471 GPa	35.84 ksi	2% Secant; ASTM D882
Impact	138	138	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	2906	2906	[ft-lbf/in ³]; Toughness MD; ASTM D882
	3671	3671	[ft-lbf/in ³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	435 g	435 g	ASTM D1922

Elmendorf Tear Strength TD	576 g	576 g	ASTM D1922
Elmendorf Tear Strength, MD	21.407 g/micron	543.75 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	28.3 g/micron	720 g/mil	ASTM D1922
Dart Drop Test	134 g	0.295 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	60.43 MPa	8764 psi	ASTM D882
Film Tensile Strength at Break, TD	49.2 MPa	7130 psi	ASTM D882
Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Dow Method (DSC)
Vicat Softening Point	104 °C	219 °F	ASTM D1525
Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	70 %	70 %	45°; ASTM D2457
Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	See notes for details.