



ELITE™ CS 6085B

Enhanced Polyethylene Resin

Overview ELITE CS 6085B Enhanced Polyethylene Resin is an enhanced LLDPE ethylene-octene copolymer from Dow. This grade is a fully formulated resin designed for FFS and lamination films, combining excellent optical properties with improved mechanicals and an additive package designed to enhance COF stability.

Complies with:

- U.S. FDA FCN 424
- Europe Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

Additive • Antiblock: 2500 ppm • Slip: 1000 ppm • Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D792
Base Density ¹	0.916 g/cm ³	0.916 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.091	0.091	
vs. Itself - Static	0.11	0.11	
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	50 µm	
Film Puncture Resistance (2.0 mil (50 µm))	80.0 ft-lb/in ³	6.62 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (50 µm)	23900 psi	165 MPa	
2% Secant, TD : 2.0 mil (50 µm)	24700 psi	170 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (50 µm)	1260 psi	8.70 MPa	
TD : Yield, 2.0 mil (50 µm)	1360 psi	9.40 MPa	
MD : Break, 2.0 mil (50 µm)	4390 psi	30.3 MPa	
TD : Break, 2.0 mil (50 µm)	4180 psi	28.8 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (50 µm)	700 %	700 %	
TD : Break, 2.0 mil (50 µm)	750 %	750 %	
Dart Drop Impact (2.0 mil (50 µm))	640 g	640 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm)	920 g	920 g	
TD : 2.0 mil (50 µm)	1200 g	1200 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	54	54	ASTM D2457
Haze (2.00 mil (50.8 µm))	15 %	15 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	462 °F	239 °C	

Extrusion Notes

- RPM/min: 40
- Pressure: 146 Bar
- Blow-up Ratio: 2.5:1

