

Borouge® RB707CF

RB707CF is a propylene-ethylene copolymer film resin without slip and antiblock additives, suitable for the manufacturing of unoriented film on blown film process. RB707CF is especially suitable for Transparent packaging film (e.g. FFS), sealing layer in coextrusions, textile packaging, food packaging, lamination film, label film, and technical and protection film.

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in ³	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 230 °C	1.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	700 %	700 %	ISO 527-3
Film Elongation at Break, TD	800 %	800 %	ISO 527-3
Flexural Modulus	0.800 GPa	116 ksi	ISO 178
Secant Modulus, MD	0.750 GPa	109 ksi	ISO 527-3
Secant Modulus, TD	0.850 GPa	123 ksi	ISO 527-3
Impact	34	34	Damaging Force (N); ISO 7765-2
Impact Test	5.00 J	3.69 ft-lb	Penetration Energy; ISO 7765-2
Coefficient of Friction	>= 0.70	>= 0.70	Film/Film; ISO 8295
Film Tensile Strength at Break, MD	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 - 55.0 MPa	5080 - 7980 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	143 - 147 °C	289 - 297 °F	ISO 3146
Vicat Softening Point	125 °C	257 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 8.0 %	<= 8.0 %	ASTM D1003
Gloss	>= 70 %	>= 70 %	At 20°C; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified