

Borealis Borseal™ RE239CF Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

Borseal™ RE239CF is a random copolymer. This grade is suitable for the manufacturing of unoriented films for metallization. Applications: Borseal™ RE239CF is recommended for food packaging, high quality stationery, lamination films, textile packaging film, and sealing layer in coextrusion. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borseal-RE239CF-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.600 g/cc	0.0181 - 0.0217 lb/in ³	
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in ³	ISO 1183
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 230 °C	11 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
Slip Level	2000 ppm	2000 ppm	EAA; Borealis Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	550 - 750 %	550 - 750 %	ISO 527-3
Tensile Modulus	0.300 - 0.400 GPa	43.5 - 58.0 ksi	ISO 527-3
Flexural Modulus	0.600 GPa	87.0 ksi	50% humidity; ISO 178
Dart Drop, Total Energy	25.0 J @Thickness 0.0500 mm	18.4 ft-lb @Thickness 0.00197 in	1200N; ISO 7765-2
Coefficient of Friction	0.20 - 0.30	0.20 - 0.30	film to 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	25.0 - 45.0 MPa	3630 - 6530 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	136 - 140 °C	277 - 284 °F	DSC; ISO 3146
Vicat Softening Point	120 °C @Load 1.02 kg	248 °F @Load 2.25 lb	A50; ISO 306

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Gloss	>= 130 %	>= 130 %	20° of arc; ASTM D2457

Component Elements Properties	Metric	English	Comments
SiO2	0.18 %	0.18 %	Antiblock; Borealis Method

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