

Borealis BorPURE™ RE216CF Polypropylene Random Copolymer

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

Material Notes:

BorPure™ RE216CF is a random copolymer. This grade is suitable for the manufacturing of unoriented films for metallization. Applications: BorPure™ RE216CF is recommended for Lamination films, Metallisable Cast film, Stationary films, and Blending components. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BorPURE-RE216CF-Polypropylene-Random-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in³	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

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	550 - 750 %	550 - 750 %	ISO 527-3
Tensile Modulus	0.400 - 0.500 GPa	58.0 - 72.5 ksi	MD/TD; ISO 527-3
Flexural Modulus	0.800 GPa	116 ksi	ISO 178
Dart Drop, Total Energy	20.0 J @Thickness 0.0500 mm	14.8 ft-lb @Thickness 0.00197 in	1150N; ISO 7765-2
Coefficient of Friction	<= 0.50	<= 0.50	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	142 - 148 °C	288 - 298 °F	DSC; ISO 3146
Vicat Softening Point	130 °C @Load 1.02 kg	266 °F @Load 2.25 lb	A50; ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 2.0 %	<= 2.0 %	ASTM D1003
Gloss	>= 120 %	>= 120 %	20° of arc; ASTM D2457

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

Descriptive Properties	Value	Comments
Metal Adhesion (tape test)	Excellent	Borealis Method

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