

Borealis Borclear™ RE718CF Propylene Alpha Olefin Copolymer for Metallizable Cast Film

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Borclear RE718CF is a propylene alpha olefin copolymer resin formulation with antiblocking agent and without Ca-stearate, especially developed for the manufacturing of unoriented cast films for metallizing. It is specifically designed to be coextruded as a skin layer in combination with a high crystalline homopolymer core layer of Bormod HD915CF. Borclear RE718CF is suitable for various high quality film applications including metallizable cast film (metallized layer and heat seal layer). Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borclear-RE718CF-Propylene-Alpha-Olefin-Copolymer-for-Metallizable-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in ³	ISO 1183
Thickness	50.0 microns	1.97 mil	
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	650 %	650 %	ISO 527-3
Film Elongation at Break, TD	850 %	850 %	ISO 527-3
Flexural Modulus	0.950 GPa	138 ksi	ISO 178
Secant Modulus, MD	0.400 GPa	58.0 ksi	ISO 527-3
Secant Modulus, TD	0.500 GPa	72.5 ksi	ISO 527-3
Impact	59.5	59.5	Damaging Force (N); ISO 7765-2
Impact Test	1.40 J	1.03 ft-lb	Penetration Energy; ISO 7765-3
Film Tensile Strength at Break, MD	45.0 - 55.0 MPa	6530 - 7980 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	138 - 144 °C	280 - 291 °F	ISO 3146
Vicat Softening Point	130 °C	266 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 1.5 %	<= 1.5 %	ASTM D1003
Gloss	>= 130 %	>= 130 %	At 20°C; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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