

BASF Ecovio® C2203 F Blend Biodegradable Polyester

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP , Polylactic Acid (PLA) Biopolymer

Material Notes:

Description: Ecovio® F Blend C2203 is our biodegradable film product containing renewable resources. It is basically a compound of our biodegradable copolyester Ecoflex® F Blend and polylactic acid (PLA). Because of the PLA content Ecovio® F Blend C2203 consists of 32% of renewable resources. Ecoflex® F Blend is the continuous phase in the structure of Ecovio® F Blend C2203 transferring the beneficial film properties of Ecoflex® F Blend into the new product. **Application:** Ecovio® F Blend C2203 has been developed for the conversion to flexible films using a blown film process. Typical applications are packaging films, hygienic films, carrier bags and compost bags. In view of numerous factors influencing functionality and shelf life of Ecovio® films and finished articles made thereof the production parameters have to be tested by the converters before utilization. Additionally sufficient field tests are required to ensure the right functionality of the articles made from Ecovio® F Blend C2203. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ecovio-C2203-F-Blend-Biodegradable-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.24 - 1.26 g/cc	0.0448 - 0.0455 lb/in³	ISO 1183
Water Vapor Transmission	84.0 g/m²/day	5.41 g/100 in²/day	ASTM F1249
Oxygen Transmission Rate	670 cc/m²/day	43.1 cc/100 in²/day	dry; ASTM D3985
Melt Flow	<= 2.0 g/10 min	<= 2.0 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ISO 868
Tensile Strength	30.0 - 39.0 MPa	4350 - 5660 psi	ISO 527
Tensile Strength, Ultimate	29.0 - 39.0 MPa	4210 - 5660 psi	ISO 527
Elongation at Break	330 - 430 %	330 - 430 %	ISO 527
Tensile Modulus	0.280 - 0.840 GPa	40.6 - 122 ksi	ISO 527
Dart Drop Total Energy	420 J/cm	0.787 ft-lb/mil	DIN 53373

Thermal Properties	Metric	English	Comments
Melting Point	110 - 120 °C	230 - 248 °F	DSC
	140 - 155 °C	284 - 311 °F	DSC
Vicat Softening Point	70.0 °C	158 °F	A/50; ISO 306

Optical Properties	Metric	English	Comments
Haze	85 %	85 %	ASTM D1003

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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