

BASF Ecovio® C2224 F Blend Biodegradable Polyester

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

Material Notes:

Description: Ecovio® F Blend C2224 is our biodegradable film product containing renewable resources. It is basically a compound of our biodegradable copolyester Ecoflex® F Blend and polylactic acid (PLA, NatureWorks®). Because of the PLA content Ecovio® F Blend C2224 consists of 45% of renewable resources. Ecoflex® F Blend is the coherent phase in the structure of Ecovio® F Blend C2224 transferring the beneficial film properties of Ecoflex® F Blend into the new film product. **Application:** Ecovio® F Blend C2224 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 C2224. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ecovio-C2224-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	98.0 g/m²/day	6.31 g/100 in²/day	ASTM F1249
Oxygen Transmission Rate	860 cc/m²/day	55.4 cc/100 in²/day	dry; ASTM D3985
Melt Flow	<= 2.5 g/10 min	<= 2.5 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.4 - 5.2 g/10 min	2.4 - 5.2 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ISO 868
Tensile Strength	27.0 - 35.0 MPa	3920 - 5080 psi	ISO 527
Tensile Strength, Ultimate	27.0 - 35.0 MPa	3920 - 5080 psi	ISO 527
Elongation at Break	250 - 320 %	250 - 320 %	ISO 527
Tensile Modulus	0.520 - 0.750 GPa	75.4 - 109 ksi	ISO 527
Dart Drop Total Energy	380 J/cm	0.712 ft-lb/mil	DIN 53373

Thermal Properties	Metric	English	Comments
Melting Point	110 - 120 °C	230 - 248 °F	DSC

Thermal Properties	Metric	English	Comments
	140 - 155 °C	284 - 311 °F	DSC
Vicat Softening Point	68.0 °C	154 °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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