

## BASF Ecoflex® C1200 F Blend Biodegradable Polyester

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP

### Material Notes:

Description: Ecovio® F Blend C2332 is our biodegradable, statistical, aliphatic-aromatic copolyester based on the monomers 1,4-butanediol, adipic acid and terephthalic acid in the polymer chain. Ecoflex® F Blend C1200 will biodegrade to the basic monomers 1,4-butanediol, adipic acid and terephthalic acid and eventually to carbon dioxide, water and biomass when metabolized in the soil or compost under standard conditions. Applications: Ecoflex® F Blend C1200 has been developed for the conversion to flexible films using a blown film or cast film process. Typical applications are packaging films, agricultural films and compost bags, In view of numerous factors influencing functionality and shelf life of Ecoflex® films and finished articles made thereof these parameters have to be tested by the converters before utilization. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ecoflex-C1200-F-Blend-Biodegradable-Polyester.php](http://www.lookpolymers.com/polymer_BASF-Ecoflex-C1200-F-Blend-Biodegradable-Polyester.php)

| Physical Properties      | Metric                      | English                            | Comments  |
|--------------------------|-----------------------------|------------------------------------|-----------|
| Density                  | 1.25 - 1.27 g/cc            | 0.0452 - 0.0459 lb/in <sup>3</sup> | ISO 1183  |
| Water Vapor Transmission | 140 g/m <sup>2</sup> /day   | 9.02 g/100 in <sup>2</sup> /day    | DIN 53122 |
| Oxygen Transmission Rate | 1600 cc/m <sup>2</sup> /day | 103 cc/100 in <sup>2</sup> /day    | DIN 53380 |
| Melt Flow                | 2.7 - 4.9 g/10 min          | 2.7 - 4.9 g/10 min                 | ISO 1133  |

| Mechanical Properties      | Metric          | English         | Comments |
|----------------------------|-----------------|-----------------|----------|
| Hardness, Shore D          | 32              | 32              | ISO 868  |
| Tensile Strength           | 35.0 - 44.0 MPa | 5080 - 6380 psi | ISO 527  |
| Tensile Strength, Ultimate | 36.0 - 45.0 MPa | 5220 - 6530 psi | ISO 527  |
| Elongation at Break        | 560 - 710 %     | 560 - 710 %     | ISO 527  |

| Thermal Properties    | Metric       | English      | Comments      |
|-----------------------|--------------|--------------|---------------|
| Melting Point         | 110 - 120 °C | 230 - 248 °F | DSC           |
| Vicat Softening Point | 91.0 °C      | 196 °F       | A/50; ISO 306 |

| Optical Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Transmission, Visible | 82 %   | 82 %    | ASTM D1003 |

| Descriptive Properties | Value  | Comments |
|------------------------|--------|----------|
| Commercial Status      | Europe |          |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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