



Greener Polymers Bio Composite Materials

PRODUCT DATA SHEET

Product Reference: EcoVid - 43IMH

Description

EcoVid-43IMH is a General Purpose Ingeo PLA and bio-composite material blend suitable for Thermoforming processes with a High Heat resistance index. The material, rated for 178F/80°C and could be frozen to -32°C. Mould crystallization will increase the heat deflection from 80°C to 110°C+ depending on the application.

Applications

Applications: **EcoVid-43IMH** Ingeo PLA composite may be used in a variety of applications involving heat resistant injection moulding products such as spoons, knives and forks, hot coffee cups, soup bowls, pre-cooked food trays, single use trays and disposable food platters. For additional information and properties associated with particular applications please refer to Technical Services info@greenerpolymers.com.

Typical Properties

Physical	Nominal Values	Test Method(s)
Density	1.27 gr/cm ³	ASTM D792
Melt Flow Rate	(190°C/2.16kg) 22gr/10 min	ASTM D1238
Melt Flow Rate	(210°C/2.16 Kg) 80gr/10 min	ASTM D1238
Vapour Barrier Transmission rate	20.1636 (sd +/- 0.3537)	ASTM E380
Oxygen Permeability	53.481 (sd +/- 0.249)	ASTM E380

Thermal	Nominal Values	Test Method
Melting Point (DSC)	130°-180°C	ASTM D3418
Vicat Softening Point	130°C	ASTM D1525

Processing Information - Injection Moulding

ZONE	Temperature Settings C
Feed Throat	145 - 155°C
Feed Section	145 - 165°C
Compression Section	165 - 195°C
Metering Section	165 - 195°C
Die	165 - 180°C
Screw Speed	85 - 185rpm
Back pressure	150 – 400 psi
Mould Shrinkage	0.004 in/in ± 0.001
Mould Cycle Time	19-35 secs

Safety and Handling A Product Safety Bulletin/Material Data Safety Sheet is available from your Greener Polymers representative.

Please refer to Material Safety Data Sheet before using this product.

Customer Service: **Greener Polymers Inc. USA**, Email: info@greenerpolymers.com
Greenerpol Ltd. UK, Email: john.flaherty@greenerpol.com
Tel: +44 (0)1492 550305 (UK)

DISCLAIMER

Technical information contained herein is furnished without charge or obligation and is given and accepted as recipient's sole risk. Because conditions of use may vary and are beyond our control, Greener Polymers Inc. and Greenerpol Ltd make no representation about and is not responsible or liable for the accuracy and reliability of data nor for any toxicological effects or industrial hygiene requirements associated with particular uses of any product described.

Nothing contained in this document shall be considered a recommendation for any use that may infringe Patent rights or an endorsement of any particular material, equipment, service or other item supplied by Greener Polymers Inc. and Greenerpol Ltd.

All data is for information only and in no way modify, amend, enlarge, or create any specification or warranty, expressed or implied, including without limitation the warranties of merchantability and fitness for a particular purpose are excluded.

Temperatures are provided as a guideline and may need to be adjusted according to specific equipment and loading percentages.

GREENERPOL LTD, Heathfield 15, Queens Road Sale, Cheshire, M33 6QA. john.flaherty@greenerpol.com
GREENER POLYMERS Inc. 5056 NW 66 Lane, Coral Springs, FL 33067, USA, (954) 340-2427 greenerpolymers@gmail.com

© Copyright 2014 Greener Polymers Inc.