

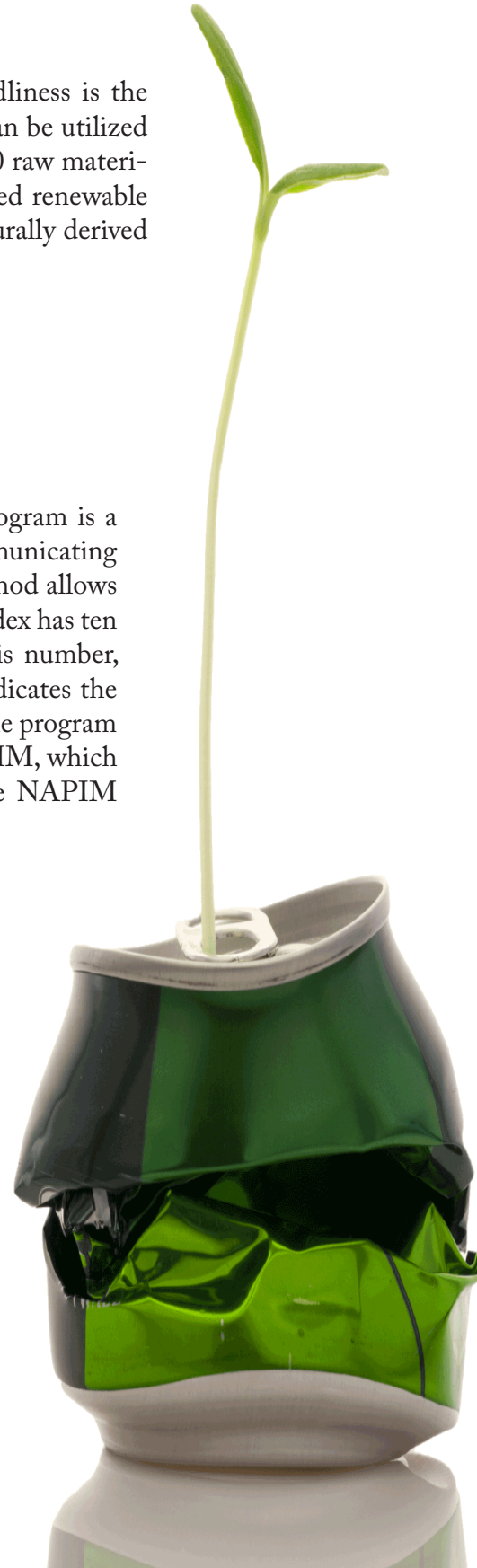
One technique generally understood to improve environmental friendliness is the use of bio-derived material. Many bio-derived renewable materials can be utilized in a printing ink formulation. The NPIRI Task Force has identified over 60 raw materials that can be used to formulate printing inks. In printing ink, bio-derived renewable material is defined as any material originating from plants, animals, or naturally derived sources (such as water) that can be replenished in the near term.

METHOD

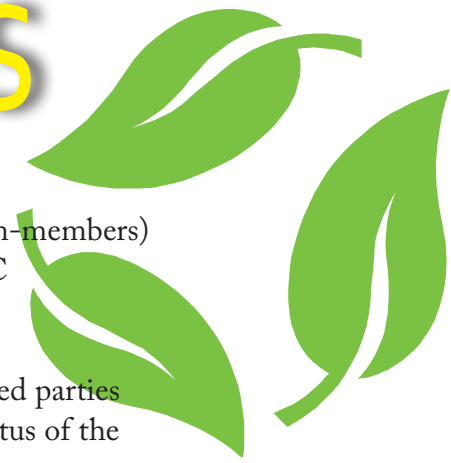
The NAPIM Bio-derived Renewable Content (BRC) program is a method for consistently measuring, registering and communicating the bio-derived renewable content of a printing ink. The method allows INX International to designate a “BRC index” for inks. The index has ten numerical categories covering a range of concentrations. This number, included on a NAPIM-certified label with a unique logo, indicates the amount of bio-derived material in the formulation. Users of the program are required to register their inks or raw materials with NAPIM, which maintains a publicly available database of these inks on the NAPIM website for the purposes of verification.

PROGRAM

Each component of an ink formulation is reviewed for its bio-derived renewable material content and submitted to NAPIM for confirmation and registration. A list of common bio-derived renewable ink materials is available on the NAPIM website. Specific bio-derived content of the raw materials is obtained from the raw material supplier or through the online formulators’ technical database — Chemidex.



COMPONENTS



NAPIM Provides:

- A list of bio-derived renewable materials and worksheet
- Calculation instructions to determine the BRC Index
- Licensing agreement for use of the label and logo (fee based for non-members)
- Assistance to raw material suppliers for accurate calculation of BRC
- A review of the submitted BRC to verify the index value
- A label that includes a traceable registration number
- A database list which can be accessed by printers and other interested parties on the NAPIM website of the registration numbers and current status of the individual inks.

Raw Material Supplier Provides:

- The BRC of the products sold to the requesting ink manufacturer. This can be done directly with the ink manufacturer or alternatively through Chemidex Cybrary at www.chemidex.com.

INX International Provides:

- The BRC calculation is submitted to NAPIM for verification and assignment of registration number.

For more details, or assistance contact INX International, 800-233-INKS or greenteam@inxintl.com or the NAPIM office at 732-855-1525 or napim@napim.org

BRC INDEX RANGES

INX may use the label on products listed that meet or exceed the criteria established and verified by NAPIM.

BRC INDEX	BIO-DERIVED RENEWABLE CONTENT RANGE
	Weight % of formula
10	10.0 to 15.0%
20	15.1 to 25.0%
30	25.1 to 35.0%
40	35.1 to 45.0%
50	45.1 to 55.0%
60	55.1 to 65.0%
70	65.1 to 75.0%
80	75.1 to 85.0%
90	85.1 to 95.0%
100	95.1 to 100%

