

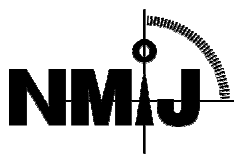
National Institute of Advanced Industrial Science and Technology (AIST)

National Metrology Institute of Japan (NMIJ)

Certified Reference Material

NMIJ CRM 8107 - a

No. +++)



Bisphenol A in Polycarbonate

This certified reference material was made under ISO Guide 34 and can be used to control measuring precision, and to confirm the validity of measuring methods when determining the bisphenol A (BPA) in polycarbonate (PC).

Certified Value: Mass fraction of bisphenol A in polycarbonate

	Certified Value: Mass Fraction (mg/kg)	Combined Expanded Uncertainty (mg/kg)
bisphenol A	35.7	2.8

The combined expanded uncertainties were calculated from a combined uncertainties with a coverage factor $k=2$.

Profile:

Mass fraction of BPA in PC was determined by gas chromatography / isotope dilution mass spectroscopy methods (GC/IDMS) and size excluded chromatography (SEC) with calibration curve. The certified value was determined from NMIJ CRM 4030-a (bisphenol A) as primary standard. Uncertainty is determined in accordance with international documentation (GUM). This CRM is SI traceable.

Expiration of Certification:

The certification of this CRM lot is valid until March 31, 2010, provided that the CRM is not opened and is stored in accordance with the instructions given in this certificate. If substantive changes occur that affect the certification before expiration of this certificate, AIST will notify the purchaser. If the CRM can be stored more than ten years, AIST may notify the purchaser.

Form:

This CRM form is a clear pellet at room temperature.

Net weight: 10 g (kept in a glass bottle)

Storage:

This reference material should be kept at room temperature without moisture and should not be shined directly upon.

Homogeneity Testing:

The homogeneity of this CRM was tested by SEC analysis of 9 bottles out of 679 bottles. The uncertainty of certified value includes the inhomogeneity.

NMIJ Analysts, Polymer Standards Section, Materials Characterization Division, NMIJ/AIST

S. Matsuyama, K. Kishine, and S. Kinugasa (Technical manager)

March 23, 2006

Hiroyuki Yoshikawa

President,

National Institute of Advanced Industrial Science and Technology (AIST)

If you have any questions about this CRM, please contact
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Note: This certificate is a translation of the original Japanese certificate and is not an official document.

Sample