

**National Institute of Environmental Health  
Department of Water Hygiene and Water Safety  
Division of Water Safety**

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**Expert opinion**

on the application of **NORMA high-pressure black polypropylene  
compression fittings** (Product name: **KPE fitting**) manufactured by **Chien Jin  
Plastic Sdn Bhd** (NORMA GROUP Holding GmbH), Malaysia in **drinking  
water supply**.

**Order Number: 6019/2014. OKI**

Budapest, 16<sup>th</sup> of February, 2015

**Product information:**

<p><u>Name and address of the distributor (client):</u></p>	<p><b>NORMA GROUP Holding GmbH</b> Address: Edisonstr. 4, D-63477 Maintal Germany <u>Administrator of the proceedings:</u> Norma-Ker Kft. (1116 Budapest Temesvár u. 19-21.)</p>
<p><u>Name and address of the manufacturer:</u></p>	<p><b>Chien Jin Plastic Sdn Bhd (NORMA GROUP Holding GmbH)</b> Address: No 4&amp;6, Persiaran Perusahaan Kledang Utara 1/3, Taman Perindustrian Chandan Rava, 31450 Menglembu, Ipoh, Perak, Malaysia</p>
<p><u>Name and materials of the product:</u></p>	<p><b>NORMA high-pressure black polypropylene compression fittings</b> (Product name: <b>KPE fitting</b>) <u>The materials of the parts in contact with drinking water:</u></p> <ul style="list-style-type: none"> <li>- <b>Material of the black polypropylene body: BA 160E-8229-01 polypropylene</b> raw material, manufacturer: Borealis Group</li> <li>- <b>Gasket ring: NBR O Ring</b>, manufacturer: Innovative Rubber Products Sdn. Bhd., Malaysia</li> </ul>

	<u>Parts that do not come into contact with drinking water:</u> <b>Blue</b> connecting PP parts, <b>black</b> holder PP parts, and <b>grey</b> threaded POM ring
<u>Size-range:</u>	Not restricted
<u>Field of use:</u>	Drinking water treatment (max. 30 °C )

The Client (NORMA GROUP Holding GmbH, Germany) intends to **distribute** the above named **KPE fittings** for use in **drinking water supply**. The Client applied for expert opinion from the National Institute of Environmental Health. The documents required for the expert opinion (the quality certificate of the manufacturer, data sheets of the parts that come into contact with water, and their test results) were provided by the Client who is also responsible for their veracity.

Based on these documents it was concluded that the parts of the product that into contact with drinking water (the above mentioned materials) comply with the required standards:

The black Borealis BA 160E-8229-01 polypropylene-based **fitting** already has the adequate water-hygiene test and certification (produced by the foreign **AMS** Laboratories, Australia, under No.: 1111519/ 2011), which was provided by the Client.

Since the above mentioned test results are available, it was deemed unnecessary to perform further migration tests. The expert opinion is given based on the provided documentation.

Expert opinion:

Based on the above, we support the registration and application of the **NORMA high-pressure black polypropylene compression fittings** (Product name: **KPE fitting**) produced by **Chien Jin Plastic Sdn Bhd** (NORMA GROUP Holding GmbH), Malaysia in **drinking water supply (max. 30<sup>0</sup>C)** under the following conditions:

1. The Distributor has to inform the end-user of the following:
  - The temperature of the water in contact with the fittings must not exceed 30<sup>0</sup>C
  - The Manufacturer and the Distributor shall inform the end-user clearly on the cleaning and disinfection instructions!


Regarding declaration, registration, and authorisation of the chemicals used during the cleaning and disinfection of the product, the specifications of Government Decree 201/2001 (X.25.), and the 38/2003. (VII.7) ESzCsM-FVM-KvVM Joint Decree apply.

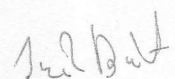
- The distribution system containing the built-in fittings shall be filled with drinking water before use for at least a day. The flush water shall be let into the sewage system. The flush water should not be used for domestic purposes.
2. Registration only applies to products that are of the same quality as in the documentation provided to the National Institute of Environmental Health (OKI).


Our expert opinion only concerns public-health aspects and it does not mean the assessment and registration of the product or technology from any other (e.g. technical, economic) aspect.

Registration should be requested based on our expert opinion, from the Office of the Chief Medical Officer of State (OTH) in accordance with Government Decree 201/2001 (X.25.). Our expert opinion is valid for a year without a re-examination. Regular re-examination shall be requested from OKI by the applicant within 5 years of registration. (A simplified examination of the product may occur as a form of quality inspection during the re-examination process.)

Our expert opinion may only be used and copied as a complete document.

  
Dr. Márta Vargha  
head of department

  
Ágnes Sebestyén  
professional verification

  
Lilla Léderné Gyenge  
supervisor

