

AENOR Product Certificate

Plastics



001/006620

AENOR, Spanish Association for Standardization and Certification, certifies that the organization

AKAN ENTERPRISE GROUP (SHANGHAI) CO. LTD.

registered office NO. 4828 SHENJIANG SOUTH ROAD - PUDONG AREA
201314 SHANGHAI (China)

supplies Polypropylene (PP-R) pipes for hot and cold water installations

in compliance with UNE-EN ISO 15874-1:2013 (EN ISO 15874-1:2013)
UNE-EN ISO 15874-2:2013 (EN ISO 15874-2:2013)

TRADEMARK POLYGON
SERIE 2,5
DIAMETERS (mm) 20 - 25 - 32 - 40 - 50 - 63 - 75 - 90 - 110
APPLICATION CLASS /DESIGN PRESSURE (bar) 1/10 ; 2/8 ; 4/10 ; 5/6
OPACITY YES

Production site(s) NO. 4828 SHENJIANG SOUTH ROAD - PUDONG AREA
201314 SHANGHAI (China)

Certification scheme In order to grant this Certificate, AENOR has tested the product and has verified the quality system implemented for its manufacture. AENOR performs these tasks periodically while the Certificate has not been cancelled, in accordance with Specific Rules RP 01 52.

First issued on 2016-07-20
Validity date 2021-07-20


AENOR Asociación Española de
Normalización y Certificación

Avelino BRITO
Chief Executive Officer

AENOR Asociación Española de
Normalización y Certificación

Génova, 6. 28004 Madrid. España
Tel. 902 102 201 - www.aenor.es

AENOR Product Certificate

Plastics



001/006643

AENOR, Spanish Association for Standardization and Certification, certifies that the organization

AKAN ENTERPRISE GROUP (SHANGHAI) CO. LTD.

registered office	NO. 4828 SHENJIANG SOUTH ROAD - PUDONG AREA 201314 SHANGHAI (China)
supplies	Fittings for polypropylene (PP-R) pipes for hot and cold water installations
in compliance with	UNE-EN ISO 15874-1:2013 (EN ISO 15874-1:2013) UNE-EN ISO 15874-3:2013 (EN ISO 15874-3:2013)
TRADEMARK	POLYGON See annex for more information.
Production site(s)	NO. 4828 SHENJIANG SOUTH ROAD - PUDONG AREA 201314 SHANGHAI (China)
Certification scheme	In order to grant this Certificate, AENOR has tested the product and has verified the quality system implemented for its manufacture. AENOR performs these tasks periodically while the Certificate has not been cancelled, in accordance with Specific Rules RP 01.52.
First issued on	2016-11-07
Validity date	2021-11-07


AENOR Asociación Española de
Normalización y Certificación

Avelino BRITO
Chief Executive Officer

AENOR

Asociación Española de
Normalización y Certificación

Génova, 6. 28004 Madrid. España
Tel. 902 102 201 - www.aenor.es

AENOR Product Certificate

Plastics



001/006644

AENOR, Spanish Association for Standardization and Certification, certifies that the organization

AKAN ENTERPRISE GROUP (SHANGHAI) CO. LTD.

registered office NO. 4828 SHENJIANG SOUTH ROAD - PUDONG AREA
201314 SHANGHAI (China)

supplies Plastics piping system for hot and cold water installations. Polypropylene (PP-R)

in compliance with UNE-EN ISO 15874-1:2013 (EN ISO 15874-1:2013)
UNE-EN ISO 15874-5:2013 (EN ISO 15874-5:2013)

SYSTEM DESCRIPTION TRADEMARK: POLYGON
TYPE OF JOINT: Thermofusion / Metallic parts
APPLICATION CLASS/DESIGN PRESSURE (bar): 1/10 ; 2/8 ; 4/10 ; 5/6

See annex for more information.

Production site(s) NO. 4828 SHENJIANG SOUTH ROAD - PUDONG AREA
201314 SHANGHAI (China)

Certification scheme In order to grant this Certificate, AENOR has tested the product and has verified the quality system implemented for its manufacture. AENOR performs these tasks periodically while the Certificate has not been cancelled, in accordance with Specific Rules RP 01 52.

First issued on 2016-11-07
Validity date 2021-11-07


AENOR Asociación Española de
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Avelino BRITO
Chief Executive Officer

AENOR Asociación Española de
Normalización y Certificación

Génova, 6. 28004 Madrid. España
Tel. 902 102 201 - www.aenor.es

Approval Number: 1609512
Test Report: MAT/LAB 130L



Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

9th September 2016

Akan Enterprise Group (Shanghai) Co. Ltd.
NO.4828 South Shenjiang Road,
Pudong Area,
201314,
Shanghai,
China

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE - COMPONENTS.

5260

'Polygon PPR Pipe'. Green coloured, single layered, extruded PPR pipe. For use with water up to 85°C.

APPROVAL NUMBER: 1609512

APPROVAL HOLDER: AKAN ENTERPRISE GROUP (SHANGHAI) CO. LTD.

The Scheme reserves the right to review approval.

Approval 1609512 is valid between September 2016 and September 2021

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

A handwritten signature in black ink, appearing to read 'Jason Furnival', written in a cursive style.

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

Approval Number: 1609513
Test Report: MAT/LAB 132L



Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

9th September 2016

Akan Enterprise Group (Shanghai) Co. Ltd.
NO.4828 South Shenjiang Road,
Pudong Area,
201314,
Shanghai,
China

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE - COMPONENTS.

5260

'Polygon PPR Fitting'. Green coloured, injection moulded PPR fitting. For use with water up to 85°C.

APPROVAL NUMBER: 1609513

APPROVAL HOLDER: AKAN ENTERPRISE GROUP (SHANGHAI) CO. LTD.

The Scheme reserves the right to review approval.

Approval 1609513 is valid between September 2016 and September 2021

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

A handwritten signature in black ink, appearing to read 'Jason Furnival', written in a cursive style.

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

Certificate of Compliance



No. 0B160506.AEGUC20

Certificate's Holder:

Akan Enterprise Group (Shanghai) Co., Ltd.
No.4828, South Shenjiang Road, Pudong Area, 201314, Shanghai, China

Certification ECM Mark:



Product:

PP-R Pipes and Fittings,
HDPE Pipes and Fittings

Model(s):

PP-R Pipes and Fittings 20mm-160mm,
HDPE Pipes and Fittings 32mm-800mm

Verification to:

Standard:
EN ISO 15874-1:2013, EN ISO 15874-2:2013,
EN ISO 15874-3:2013, EN ISO 15874-5:2013,
EN 12201-1:2011, EN 12201-2:2011+A1:2013,
EN 12201-3:2011+A1:2012, EN 1555-1:2010,
EN 1555-2:2010, EN 1555-3:2010+A1:2012

related to CE Directive(s):
R 305/2011 (Regulation for the Marketing of Construction Products)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the **CE** Marking:



We attest that a TCF for the **CE** Marking process is in place. Whereas the Manufacturer is Responsible to start the **CE Marking Certification Procedure** through an appointed Notified Body and the perform all the necessary activities, as required by the Directive and accepted by the Notified Body, before placing the **CE** Mark on the product(s).

Date of issue 06 May 2016

Expiry date 05 May 2021

Chief Manager
Tim Mahan

Deputy Manager
Viola Miller



Ente Certificazione Macchine Srl

Via C. Belli, 43 – Loc. Castello di Serravalle – 40053 Valsamoggia
☎ +39 051 6705141 ☎ +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it



SINGAPORE GREEN BUILDING PRODUCT CERTIFICATE

AWARDED TO

AKAN ENTERPRISE GROUP (SHANGHAI) CO LTD

No.4828, South Shenjiang Road,
Pudong Area, Shanghai,
China 201314

FOR THE PRODUCT

Potable Water

PRODUCT BRAND

POLYGON

PRODUCT MODEL

PPR

THE PRODUCT HAS BEEN ASSESSED ACCORDING
TO THE ASSESSMENT CRITERIA OF THE SINGAPORE
GREEN BUILDING PRODUCT CERTIFICATION SCHEME.
IT HAS BEEN AWARDED THE RATING :

Director
SGBC Pte Ltd



Certificate Number	Original Issue Date	Last Revision Date	Valid Till
SGBP 2018-1506	28 th May 2018	-	27 th May 2020

✓ Good ✓✓ Very Good ✓✓✓ Excellent ✓✓✓✓ Leader

The use and reliance on this certificate is subject to the terms and conditions of the Singapore Green Building Product Certification Scheme. Revised certificates may also be issued at the discretion of the Council. The certification status may be verified at the Singapore Green Building Council website (www.sgbc.sg).





株式会社晓星 Hyosung Corporation -----

上海爱康新型建材有限公司:

证书号码: HSC-090319

SHANGHAI AKAN NEW-STYLE BUILDING MATERIAL CO.LTD.:

CERTIFICATE NO.:HSC-070319

用户证明

CERTIFICATE OF CUSTOMER

晓星公司特此证明上海爱康新型建材有限公司是使用株式会社晓星公司生产的 TOPILENE R200P 原料的忠诚用户之一。

WE, HYOSUNG CORPORATION, HEREBY CERTIFY THAT SHANGHAI AKAN NEW-STYLE BUILDING MATERIAL CO.LTD IS ONE OF FAITHFUL CUSTOMERS USING TOPILENE R200P WHICH IS MANUFACTURED BY US.

发行单位: 株式会社晓星

ISSUED BY HYOSUNG CORPORATION



发行日期: 2009年3月19日

ISSUING DATE: MAR. 19, 2009



China National Accreditation Service for Conformity Assessment
LABORATORY ACCREDITATION CERTIFICATE
(Registration No. CNAS L9665)

Akan Enterprise Group (Shanghai) Co., Ltd. Test Center
No.4828, Shenjiang South Road, Pudong New District, Shanghai, China

is accredited in accordance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule form an integral part of this certificate.

Date of Issue: 2017-02-06

Date of Expiry: 2023-02-05

Date of Initial Accreditation: 2017-02-06

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People' s Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA). The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>

Certificate CN01/20047

The management system of

AKAN Enterprise Group (Shanghai) Co., Ltd.

No. 4828, South Shenjiang Road, Xinchang Town, Pudong New District, Shanghai, P.R. China

Unified Social Credit Code 91310000630279253C

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities

Manufacture of polypropylene random copolymer (PP-R) pipes and fittings, polypropylene random copolymer (PP-R) stable composite pipes, polyethylene (PE) pipe and fittings, cross-linked polyethylene (PE-X) pipes, polyethylene raised temperature (PE-RT) pipes and fittings, un-plasticized polyvinyl chloride (PVC-U) pipes and fittings, cross-linked polyethylene aluminium cross-linked polyethylene (PEX-AL-PEX) pipes, polybutylene (PB) pipes and fittings, and high density polyethylene (HDPE) pipes and fittings

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organisation

This certificate is valid from 25 July 2019 until 24 July 2022 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 9. Certified since 25 July 2001

Authorised by

SGS United Kingdom Ltd
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

The certification information can be verified on the web site of Certification and Accreditation Administration of the People's Republic of China www.cnca.gov.cn

HC SGS 9001 2015 0118

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0005



Certificate CN05/22119

The management system of

AKAN Enterprise Group (Shanghai) Co., Ltd.

No. 4828, South Shenjiang Road, Xinchang Town, Pudong New District,
Shanghai, P.R. China

has been assessed and certified as meeting the requirements of

ISO 14001:2015

For the following activities

Manufacture of polypropylene random copolymer (PP-R) pipes and fittings, polypropylene random copolymer (PP-R) stable composite pipes, polyethylene (PE) pipe and fittings, cross-linked polyethylene (PE-X) pipes, polyethylene raised temperature (PE-RT) pipes and fittings, un-plasticized polyvinyl chloride (PVC-U) pipes and fittings, cross-linked polyethylene aluminium cross-linked polyethylene (PEX-AL-PEX) pipes, polybutylene (PB) pipes and fittings, and high density polyethylene (HDPE) pipes and fittings

This certificate is valid from 4 May 2018 until 31 March 2020 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date Issue 6. Certified since 1 April 2005

Authorised by

SGS United Kingdom Ltd
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

HC SGS 14001 2015 0118

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