

COMPANY PROFILE:

MODUS PLASTİK METAL AŞ. TÜRKİYE

MODUS PEX-A

As **MODUS PLASTİK METAL AŞ.** we specialize in the production of high-quality PEXa, PERT 5-layer, Pex-Al-Pex pipes, valves, Manifold systems. With our innovative technologies and stringent quality control processes, we offer the most reliable and durable products in the industry.



Company Overview

- **Established:** 2022
- **Headquarters:** Ataköy 7-10. Kısım Mah. Çobançeşme E-5 Yan Yol Cad. Ataköy Towers A blok No: 20/1 İç Kapı No: 70 Bakırköy/İstanbul/ Türkiye
- **Factory Area:** ÇERKEŞLİ OSB İmes 4 boulevard no 13 Dilovası Kocaeli City Türkiye
- **Export Office:** Barış Mah., Belediye Cad. No:30, Ginza Lavinya İş Merkezi B Blok Kat 9 No 163 Beylikdüzü / İstanbul
- **Number of Employees:** 105
- **Annual Production Capacity:** 50.000.000 meters pipes per year.

Vision & Mission

Our Vision: To become a globally trusted and preferred manufacturer of advanced flexible piping systems, recognized for innovation, quality, and sustainable growth.

Our Mission: To deliver high-performance, reliable, and environmentally responsible piping solutions that create long-term value for our customers, partners, and communities through continuous innovation, manufacturing excellence, and customer-focused service.

PRODUCT RANGE:

PEX-A EVOH PIPES:

- Exceptional resistance to high temperatures and pressure, supported by an 85% crosslinking degree for superior long-term performance.
- Excellent resistance to corrosion, chemicals, and freeze-related damage, ensuring durability in demanding applications.
- Smooth inner and outer surfaces with premium color consistency, available in Red, Orange, Violet, Silver Grey, Transparent, and custom colors upon request.
- Manufactured in accordance with international quality standards to ensure reliability, flexibility, and long service life
- Available Dimensions (Outer Diameter × Wall Thickness):
 - 16 × 2.0 mm
 - 16 × 2.2 mm
 - 17 × 2.0 mm
 - 20 × 2.0 mm
 - 20 × 2.3 mm
 - 20 × 2.8 mm
 - 25 × 2.8 mm
 - 25 × 2.3 mm
 - 25 × 3.5 mm
 - 32 × 4.4 mm
 - 40 × 5.5 mm
- .-Coil Sizes:

PRODUCT NAME	UNIT	Meter weight KG.	Coil Weight KG.	Coil Outern Diameter CM.	Coil Internal Diameter CM.	Height of Coil Cm.	TRUCK LOADING WITH PALLET. METERS	40" HC CONT. LOADING WITH PALLET METERS
PE-Xa 16X2.0 EVOH 50 M	MT	0,090	5,5	52	38	13		
PE-Xa 16X2.0 EVOH 100 M	MT	0,090	9,5	55	38	21		
PE-Xa 16X2.0 EVOH 160 M	MT	0,090	14,4	60	35	25	126.720	
PE-Xa 16X2.0 EVOH 200 M	MT	0,090	19,5	68	38	21	126.720	
PE-Xa 16X2.0 EVOH 240 M	MT	0,090	21,6	68	38			
PE-Xa 16X2.0 EVOH 400 M	MT	0,090	39	77	35	32	134.400	
PE-Xa 16X2.0 EVOH 500 M	MT	0,090	46,5	80	35	32	168.000	140.000
PE-Xa 16X2.0 EVOH 600 M	MT	0,090	56,5	85	35	32	176.400	
PE-Xa 17X2.0 EVOH 500 M	MT	0,100	50	85	35	32	147.000	
PE-Xa 17X2.0 EVOH 600 M	MT	0,100	60	81,5	35	42	172.800	

PERT 5-Layer EVOH Pipes:

- Outstanding thermal stability for reliable operation under varying temperature conditions.
- Excellent impact resistance, ensuring durability during installation and long-term use.
- Long service life, designed to deliver consistent performance for decades.
- Superior flexibility and shape memory, allowing easy installation while maintaining structural integrity.
- Available coil lengths: 50 m, 100 m, 200 m, 240 m, 300 m, 400 m, 500 m, and 600 m.
- Available coil dimensions: Customized according to pipe diameter and coil length to optimize transportation, storage, and installation efficiency.

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PE-RT 16X2.0 EVOH 50 M	MT	0,090	5,5	52	38	13		
PE-RT 16X2.0 EVOH 100 M	MT	0,090	9,5	55	38	21		
PE-RT 16X2.0 EVOH 160 M	MT	0,090	14,4	60	35	25	126.720	
PE-RT 16X2.0 EVOH 200 M	MT	0,090	19,5	68	38	21	126.720	
PE-RT 16X2.0 EVOH 240 M	MT	0,090	21,6	68	38			
PE-RT 16X2.0 EVOH 400 M	MT	0,090	39	77	35	32	134.400	
PE-RT 16X2.0 EVOH 500 M	MT	0,090	46,5	80	35	32	168.000	140.000
PE-RT 16X2.0 EVOH 600 M	MT	0,090	56,5	85	35	32	176.400	
PE-RT 17X2.0 EVOH 500 M	MT	0,100	50	85	35	32	147.000	
PE-RT 17X2.0 EVOH 600 M	MT	0,100	60	81,5	35	42	172.800	

PACKING QUALITY AND LOADING STANDARDS AS MAIN SIZES

1- Packaging Specifications – 16 × 2.0 mm (500 m Coil) BOX

Box dimensions: 800 × 800 × 320 mm

Pallet dimensions: 770 × 770 mm

Loading configuration: 7 boxes per pallet

Truck loading capacity: up to 168,000 meters (48 pallets) per standard truck

2- Packaging Specifications – 16 × 2.0 mm (600 m Coil) WRAP

Coil outer diameter: 850 mm

Coil height: 330 mm

Pallet configuration: 7 coils per pallet

Truck loading capacity: up to 176,400 meters (48 pallets) standard truck

3-Packaging Specifications – 17 × 2.0 mm (500 m Coil) WRAP

Coil outer diameter: 850 mm

Coil height: 330 mm

Pallet configuration: 7 coils per pallet

Truck loading capacity: up to 147,000 meters per standard truck

4-Packaging Specifications – 17 × 2.0 mm (600 m Coil) WRAP

Coil outer diameter: 815 mm

Coil height: 420 mm

Pallet configuration: 6 coils per pallet

Truck loading capacity: up to 172,400 meters per standard truck

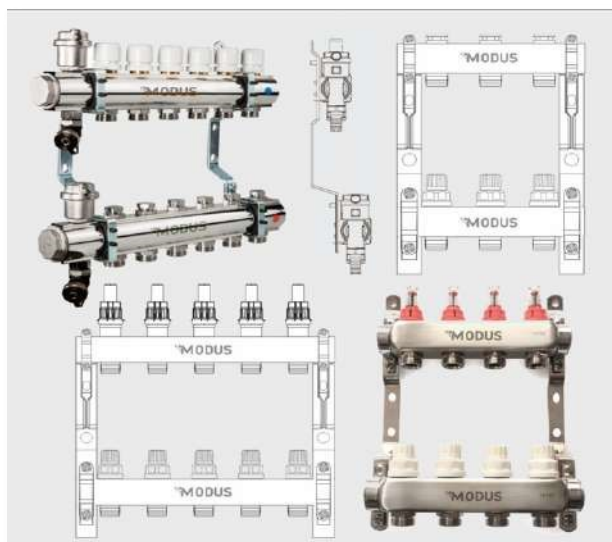
Key Benefits:

- Enhanced protection during transportation and storage
- Reduced risk of coil deformation
- Improved handling efficiency
- Optimized truck utilization and freight costs
- Consistent and professional packaging standards for international shipments
- Designed to maximize loading efficiency while maintaining product integrity throughout the supply chain.





Valves and Stainless Steel Manifolds:



Modus has invested in dedicated stainless steel manifold assembly, manufacturing, and production lines within its own facilities, enabling efficient and high-quality OEM production.

We supply our customers with OEM-branded stainless steel manifolds, as well as a comprehensive range of stainless steel and brass valves, manifold drain valves, and related manifold components.

Our in-house manufacturing and assembly capabilities ensure:

- Consistent product quality
- Flexible OEM and private-label solutions
- Reliable supply chain management
- Competitive lead times
- Compliance with international quality standards

Manufacturing Process

Our manufacturing processes are supported by state-of-the-art machinery and stringent quality control procedures:

- **Raw Material Selection:** We only work with the highest quality raw material suppliers. We are using BOREALIS, LOTTE, TOTAL and LG KOREA raw materials. Evoh EVASIN TAIWAN.





Advantages of Modus Engel System Ram Extrusion for PEXa Production:

More Homogeneous Cross-Linking:

The Engel system ensures more homogeneous cross-linking throughout the pipe. This increases the overall durability and longevity of the pipe. Other systems do not achieve this level of distribution.

Higher Cross-Linking Ratio:

Modus PEXa pipes achieve a higher cross-linking ratio of 85-89% with the Engel system, making them more flexible and durable. Infrared and Silan systems only reach 60-70%. Even with increased diameter and wall thickness, Modus PEXa maintains homogeneity.

Better Flexibility:

A higher cross-linking ratio increases pipe flexibility, allowing for easier bending during installation and fewer connection points. This flexibility prevents cracking and leaks during extreme temperatures.

Lower Thermal Expansion:

Modus PEXa pipes have a lower thermal expansion coefficient, providing more stable performance during temperature changes.

Higher Pressure and Temperature Resistance:

Engel Ram system PEXa pipes can withstand higher pressure and temperature, making them suitable for more demanding conditions.

Smoother Inner and Outer Surfaces:

Precise control during production results in smoother inner and outer surfaces, improving flow efficiency and reducing scaling.





Quality Control: Rigorous quality control tests at every stage of the production process.

Raw Material Inspection: Raw material quality and specifications upon arrival. We have a long term buy met agreement with LG Korea. And we are using glue EVASIN Taiwan



Extrusion Monitoring: Monitor temperature, pressure, and speed during extrusion. We are taking samples during to producing according to ISO and DIN standarts.

Cross-Linking Degree Testing: Cross-linking meets the required ISO standard (minimum 70%) (DIN minimum 75%) Our samples regularly ensure %86 crosslink level.



Dimensional Inspection: Pipe diameter and wall thickness regularly check by quality department.

Hydrostatic Pressure Testing: Test pipe pressure resistance according to ISO 1167.

Thermal Stability Testing: Thermal stability per ISO 4065 standards.



Impact Resistance Testing: Tests following ISO 3127 guidelines.

Oxygen Permeation Testing: Tests compliance with ISO 17455 for oxygen barrier properties.

Long-Term Hydrostatic Strength Testing: Performing long-term strength tests per ISO 9080

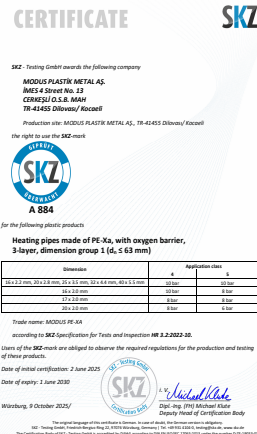
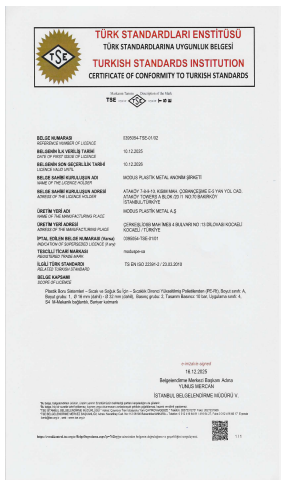


- ISO 14001: Environmental Management System
- OHSAS 18001: Occupational Health and
- ISO 9001: Quality Management System

- KIWA OXYGEN BARRIER CERTIFICATION
- SKZ GERMANY CERTIFICATE
- TSE ISO QUALITY CERTIFICATION
- WRAS CERTIFICATION UK.



- GOST RUSSIA
- TICEM TSE DRINKING WATER TEST REPORTS
- ZURIH PRD.INSURANCE (2.000.000 EURO PER PROJECT 200.000 EURO)



SKZ - Testing GmbH awards the following company
MODUS PLASTİK METAL AŞ
 İSMEK 4. Kat Kat No: 23
 ÇERKEZÖZÜMÜ MAHALLESİ
 TR-41455 DİĞİRKÖY / Kocaeli

for the right to use the SKZ mark



A 884

for the following plastic products

Heating pipes made of PE-Xa, with oxygen barrier,
 3-layer, dimension group 1 (4,5 ≤ 63 mm)

Dimensions	A	Application class
20x2,5 mm, 20x3 mm, 25x3 mm, 25x4 mm, 32x4 mm, 40x4 mm, 50x4 mm, 63x4 mm	1000	1000
25x2,5 mm	1000	1000
32x2,5 mm	1000	1000

Trade name: MODUS PE-Xa

according to SKZ Specification for Tests and Inspection NR 3.2.2002-20.

Users of the SKZ mark are obliged to observe the required regulations for the production and testing of their products.

Date of initial certification: 2 June 2025

Date of expiry: 1 June 2030

Worms, 9 October 2025/

The signed manager of the testing body is hereby declared as the official representative of the testing body.

SKZ - Testing GmbH, Testing Division Reg. 2, 67663 Worms, Germany. Tel: +49 (0) 9241 140-140, telefax: +49 (0) 9241 140-140, e-mail: info@skz.de

The certification body SKZ - Testing GmbH is a member of the German Association of Testing Bodies (DIN EN ISO 9001) and is certified according to DIN EN ISO 9001.

Fairs We Participated:

CANTON CHINA 2024



MCE MILANO 2024-2026



SODEX ISTANBUL 2023-2025



BIG 5 DUBAI 2023



IBS ORLANDO 2026



ISH FRANKFURT 2024



IBS USA 2027

AHR USA 2027

ISH GERMANY 2027

SODEX ISTANBUL 2027

R&D and Innovation

Our R&D team is continuously working to improve our products and production processes. By taking customer feedback into account, we develop innovative solutions.

Projects & Clients

We have participated in many significant projects across various sectors and have collaborated with prestigious brands: We have OEM cooperation with the world's largest brands producing sanitary pipes and plumbing. Special inspection engineers of these companies visited our factory and production facilities and gave the necessary approvals.



Sustainability

We are aware of our responsibility to nature with our environmentally friendly production methods and sustainability policies. We continuously make improvements in energy efficiency and waste management.

Contact Information

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- **Website:** www.modusgroup.com.tr
- **Instagram:** MODUSPEXA

MODUS PLASTİK A.Ş. is a reliable partner in the production of high-quality PEXa and PERT 5-layer and metal parts dedicated to providing the best service to our customers. With our strong technical expertise and customer-focused approach, we aim to be a leader in the industry.

Berst Regards

Ali Ayhan Solmaz
Commercial Director

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