

COMPANY PROFILE:

MODUS PLASTİK METAL AŞ. TÜRKİYE

MODUS PE-XA, IT IS AN ORGANIZATION WITH GERMAN QUALITY CERTIFICATE.

As **MODUS PLASTİK METAL AŞ.** we specialize in the production of high-quality PEXa, PERT 5-layer (MDPE and mHDPE type 2) , PEX-b 5-Layers, PB pipes, BRASS Axial fittings, 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 TOWERS A BLOK NO :20/1 İÇ KAPI NO :70
BAKIRKÖY İSTANBUL TÜRKİYE
- **Factory Area:** ÇERKEŞLİ OSB İMES 4 BULVARI NO :13DİLOVASI KOCAELİ
TÜRKİYE
- **Number of Employees:** 75
- **Annual Production Capacity:** 40.000.000 meters pipes per year.

Vision & Mission

Our Vision: To be a globally recognized, innovative, and reliable flexible system manufacturer.

Our Mission: To meet the needs of our customers by providing high-quality and eco-friendly pipe solutions.

Product Range

PEXa EVOH Pipes:

- High temperature and pressure resistance %86 crosslink level.
- Resistance to corrosion, chemicals and frozen.

- Diameters: 16*2 mm – 16*2,2 mm.17*2 mm. – 20*2/2,3 mm.- 25*2,8 mm.- 25*3,5 mm.- 32*4,4 mm 40* 5,5 mm.
- Smooth surface with a full and rich color appearance: Red, Orange, Violet, Silver Grey and Transparent.

-Coil metraj 50-100-200-240-300-400-500-600 meters coils.

-Coil Sizes:

PRODUCT NAME	UNIT	Meter weight KG.	Coil Weight KG.	Coil Outern Diameter CM.	Coil Internal Diameter CM.	Height of Coil Cm.
PE-Xa 16X2.0 EVOH 50 M	MT	0,088	5,5	52	38	13
PE-Xa 16X2.0 EVOH 100 M	MT	0,088	9,5	55	38	21
PE-Xa 16X2.0 EVOH 200 M	MT	0,088	19,5	68	38	21
PE-Xa 16X2.0 EVOH 240 M	MT	0,088	21,2	68	38	21
PE-Xa 16X2.0 EVOH 400 M	MT	0,088	39	77	34	33
PE-Xa 16X2.0 EVOH 500 M	MT	0,088	46,5	80	36	33
PE-Xa 16X2.0 EVOH 600 M	MT	0,088	56,5	85	33	33

-Packing quality:

- Black stretch for all coils

- Sack cloth and stretch double Wrap for all coil.

- Cardboard Box for 500 meters coils (80-80-32 cm box size – 79-79 cm. pallet size.7 pieces box can be load on one pallet) We can load 168,500 meters in standart truck as 500 meters coils in box.

- Sack and Black Stretch for 600 meters coils (85-32 cm coil size – 79-79 cm. pallet size.7 pieces coils can be load on one pallet) We can load 176,400 meters in standart truck as 600 meters coils.

- Sack and Black Stretch for 200or 240 meters coils (85-32 cm coil size – 79-79 cm. pallet size.7 pieces coils can be load on one pallet) We can load 176,400 meters in standart truck as 600 meters coils



PE-RT 5-Layer EVOH Pipes:

- Excellent thermal stability
- High impact resistance
- Long-lasting performance
- Coil metraj 50-100-200-240-300-400-500-600 meters coils.
- Coil Sizes:

PRODUCT NAME	UNIT	Meter weight KG.	Coil Weight KG.	Coil Outern Diameter CM.	Coil Internal Diameter CM.	Height of Coil Cm.
PE-RT 16X2.0 EVOH 50 M	MT	0,087	4,35	52	38	13
PE-RT 16X2.0 EVOH 100 M	MT	0,087	8,7	55	38	21
PE-RT 16X2.0 EVOH 200 M	MT	0,087	17,4	68	34	21
PE-RT 16X2.0 EVOH 240 M	MT	0,087	20,8	72	34	21
PE-RT 16X2.0 EVOH 400 M	MT	0,087	34,8	77	34	33
PE-RT 16X2.0 EVOH 500 M	MT	0,087	43,5	80	34	33
PE-RT 16X2.0 EVOH 600 M	MT	0,087	52,2	85	34	33



Axial Fittings:



-Secure Connection:

Brass axial fittings provide a secure and reliable connection for PEX-A pipes. The fitting is designed to ensure a tight seal, minimizing the risk of leaks.

-Durability:

Made from high-quality brass, these fittings offer excellent durability and resistance to corrosion, making them suitable for both hot and cold water applications.

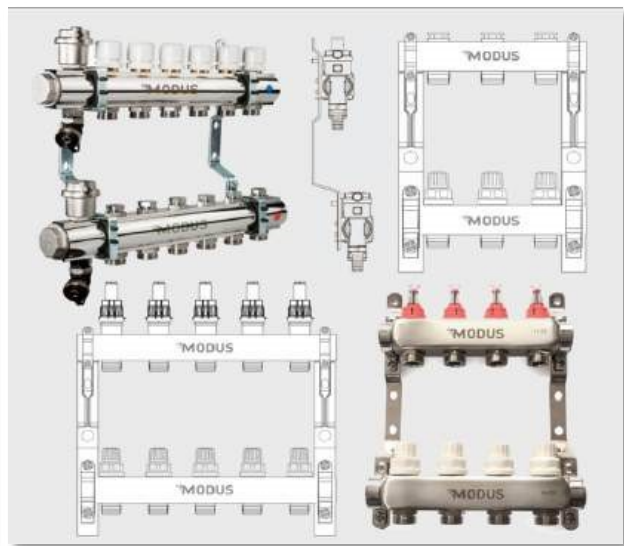
-Ease of Installation:

The axial fitting system is straightforward to install. The fitting slides over the PEX-A pipe, and an expansion tool is used to enlarge the pipe end before inserting the fitting, ensuring a snug and permanent connection.

-Compatibility:

Brass axial fittings are compatible with PEX-A pipes and other plumbing systems, providing versatility in various plumbing and heating installations. Their robust design ensures long-term performance and reliability.

Brass Valves , Brass and Stainless Steel Manifolds:



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 and LG KOREA raw materials. Evoh EVASIN TAIWAN.



- **Extrusion:** Precision production with modern extrusion machines.



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-% 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 buymet 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 %85 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.

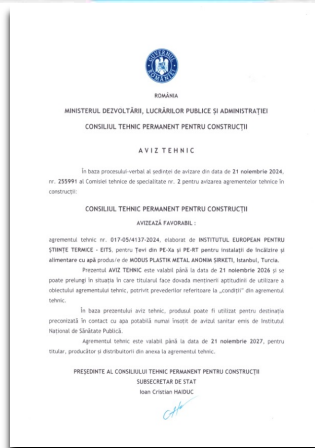
Oxygen Permeation Testing: Tests compliance with ISO 17455 for oxygen barrier properties.

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



Our Certifications:

- **ISO 9001:** Quality Management System
- **ISO 14001:** Environmental Management System
- **OHSAS 18001:** Occupational Health and
- **SKZ GERMANY:** PE-XA pipes 16-40 mm quality certificate.
- **TSE ISO:** PE-XA PIPE CROSS LINK TEST RESULTS
- **TSE ISO:** PE-XA PIPE PERFORMANCE TEST RESULTS
- **TSE ISO:** PE-RT PIPE PERFORMANCE TEST RESULTS
- **ROMANIAN CONFORMITY:** PE-XA AND PE-RT CONFORMITY CERTIFICATE
- **GOST R.F. :** PE-XA AND PE-RT CONFORMITY CERTIFICATES.
- **TSE ISO:** PE-RT AND PE-XA QUALITY CERTIFICATE WILL BE READY SEPTEMBER 2025.



INSURANCE POLICY:



FREE TRANSLATION

THIS IS ONLY A FREE TRANSLATION OF THE ORIGINAL TURKISH POLICY. IN CASE OF ANY DISPUTE BETWEEN THE PARTIES THE TURKISH ORIGINAL ONE WILL PREVAIL..

PRODUCT LIABILITY and PRODUCT RECALL INSURANCE CERTIFICATE

Policy Number	29950289
Insured	MODUS PLASTİK METAL ANONİM ŞİRKETİ
Insured Product Type	Plastic Pipe Production
Insured Period	06.03.2025 12:00 – 06.03.2026 12:00
Matter of Insurance	Product Liability (Public Liability is excluded) and Product Recall
Scope	A.1.(b) of Turkish Product Liability General Conditions and the other special conditions declared and Zurich Recall Wording
Trigger	Claims Made
Retroactive Date	1 Year
Extended Reporting Period	Nil
Territory	Worldwide except USA, Canada, Israel, Palestine, Iran, Syria, Northern Korea, Russia, Belarus, Cuba, Crimea, Sevastopol, Luhansk, Donetsk, Afghanistan, Burma(Myanmar), Central Africa Republic, Democratic Republic of Congo, Egypt, Eritrea, Guinea(Republic), Guinea-Bissau, Iraq, Libya, Mali, Moldova, Nicaragua, Ukraine, Republic of Sudan(North), Somalia, South Sudan, Venezuela, Yemen and Zimbabwe
Law&Jurisdiction	Turkey

Indemnity Limit	Deductible
Product Liability Per Occurrence 200.000 EUR and in the Annual Aggregate 1.000.000 EUR Combined Limit	Product Liability %10 of loss, minimum 5.000 EUR
Product Recall Per Occurrence and in the Annual Aggregate 200.000 EUR	Product Recall %10 of loss, minimum 10.000 EUR

Defence costs are included within the limit.

INSURED

MODUS PLASTİK METAL ANONİM ŞİRKETİ

INTERNAL USE ONLY

INSURER

ZURICH SİGORTA A.Ş.

All products manufactured by MODUS are produced and sold under the guarantee of Zurich Insurance, a reputable international insurance institution based in Switzerland. Our entire product range is insured with a total coverage of EUR 2,000,000, with a limit of EUR 200,000 per incident.

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.

Fairs We Participated:

CANTON CHINA 2024



MCE MILANO 2024



SODEX ISTANBUL 2023



BIG 5 DUBAI 2023



ISH FRANKFURT 2025



IRAQ BAGDAT REC. 2023

IRAQ ERBIL BUILD 2024



ROMANIA BUILD 2022



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

- **Address:** [Factory Address ÇERKESLI OSB. IMES 4 BOULEVARD NO 23 DILOVASI KOCAELI
- **Phone:** 0090 0262 502 60 90
- **Email:** info@modusgroup.com.tr
- **Website:** www.modusgroup.com.tr
- **Instagram:** MODUSPEXA

MODUS PLASTİK A.Ş. is a reliable partner in the production of high-quality PEXa and PERT (mHDPE) 5-layer, PB. 5 layer , MDPE, PEX-b 5 layer PEX-AL-PEX pipes 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

WHATSAPP [+90 0543 485 15 61](tel:+9005434851561)
FACTORY [+90 0262 502 60 90](tel:+9002625026090) Fax:
[0262 502 60 91](tel:+9002625026091)
ali.solmaz@modusgroup.com.tr
www.modusgroup.com.tr
[instagram : MODUSPEXA](https://www.instagram.com/moduspexa)