

Mine-Line® Abrasion Resistant Piping Systems



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Worldwide Competence in Plastics and Geosynthetics

As an international manufacturer of innovative geosynthetic products, Agru America is always prepared to meet special challenges with powerful solutions. From waste management and water conservation to mining and energy, Agru America develops the highest quality plastics solutions for the right applications.

Our competency extends into the production and sales of high-quality thermoplastic polymer products with a special capability in polyethylene (PE) piping systems.

Our AGRULINE® product group offers a complete range of pipes, fittings, valves and special parts, and our primary focus is the safe and environmentally friendly supply of natural gas, potable water and disposal of wastewater.

In order to fulfill the requirements of alternative installation technologies, such as trenchless techniques and installation without sand embedding, it is essential to use the best quality material available. To meet these stringent requirements, Agru America offers the Mine-Line® piping system made from PE 100.

Figure 1: Georgetown, SC Agru America Headquarters and Production Facility





Figure 2: Reference of the Mine-Line® piping system

Mine-Line® Piping Systems [PE 100]

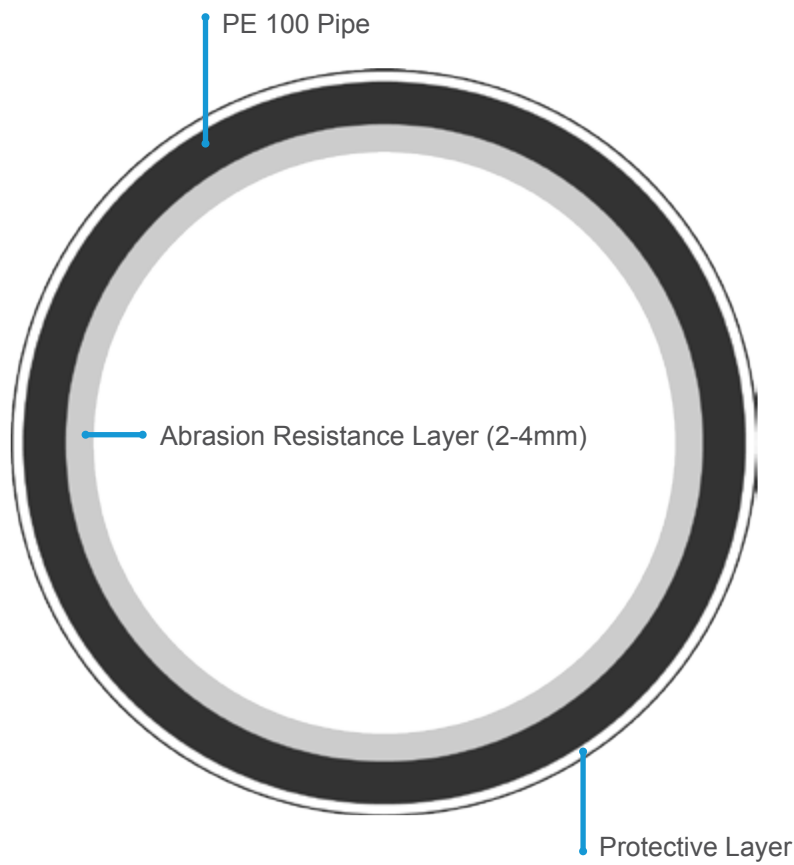
Offering outstanding abrasion resistance and reduced life-cycle costs, Mine-Line® pipes are made from PE 100 for applications such as mining slurry lines or any other highly abrasive installation.

Mine-Line® pipes withstand extremely harsh applications including fluid-solid mixtures. The pipe's white outside surface reduces pipe temperature in sunlight, which reduces thermal expansion and results in less snaking. The pipe is available in diameters starting at OD 63 millimeters up to OD 400 millimeters in SDR 17 and SDR 11.



Advantages:

- Outstanding abrasion resistance
- Reduced life-cycle costs
- Reduced thermal expansion



Abrasion Resistance Layer

This inside layer provides maximum abrasion resistance, even in the harshest applications.

Protective Layer (PE White):

The white outside surface layer reduces pipe temperature in sunlight, which reduces thermal expansion and snaking.

Figure 3: Agru America Mining Installation



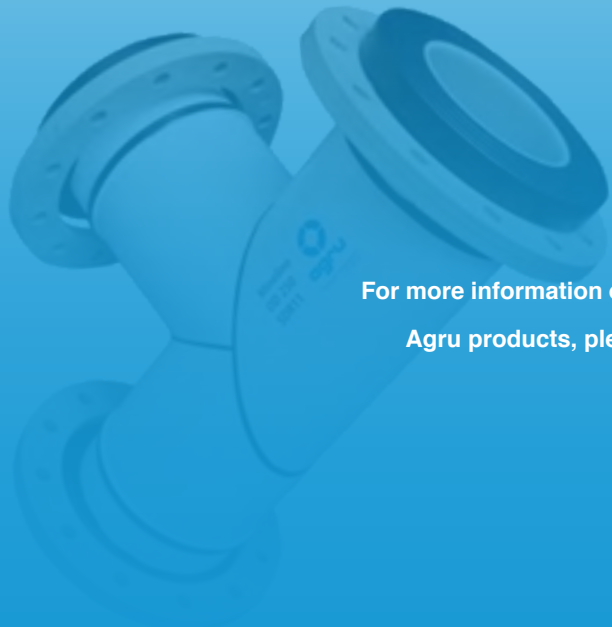


Material	Loss of Weight (g/1000 cycles)
PP-1	0.129
PP-2	0.185
PE-1	0.154
PE-2	0.164
HMW-PE	0.108
PE-Xb	0.142
POM	0.533
PMMA	0.829
PVC	0.706
Mine-Line®	0.045

Outperforming Other Piping Systems

PE pipes are perfectly suited for fluid-solid mixtures, or slurries. In many cases, PE pipes outperform other piping systems such as concrete or steel pipes.

Feedback from field applications, combined with abrasion test results, has enabled further improvements in Agru America’s Mine-Line® pipes. The main body of the Mine-Line® pipe is made out of PE 100 or PE 100-RC.



For more information on Mine-Line® and other
Agru products, please reach out to us.



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