





Product Selection Guide

FORMERRA
FLUID HANDLING
SOLUTIONS



Industrial fluid handling is comprised of many different components that aid in the efficient and safe storage and flow of fluids for different processes. Fluid handling applications need to protect internal contents that range from liquid chemicals to fluid gas while also being able to resist corrosion from exposure to these harsh fluids.

At Formerra, we help you solve your toughest application challenges by providing a specialized approach to the latest material, colorant and additive technologies. With a dedication to sustainable solutions, technical and logistics expertise and innovative design engineering capabilities, we can help you mitigate risk, optimize design, and accelerate product commercialization.



Our Suppliers





























Applications include:

- Pumps
- Hosing and tubing
- Storage tanks
- Containers
- Valves
- Gauges
- Specialized piping for industrial use, flow meters, etc.

Fluid handling solution needs:

- Corrosion, abrasion and chemical resistance
- Strength
- Stability
- Durability
- Flexibility

- Reusability
- Environmental stress crack resistance
- · Puncture resistance
- · Smooth surface

Acrylonitrile Butadiene Styrene (ABS)

INEOS Styrolution Lustran®	This product line contains grades with a well-balanced mix of properties for injection molding, including good impact strength, dimensional stability, and both high and low gloss surface appearance.
INEOS Styrolution Terluran®	An injection molding grade with very high resistance to impact with excellent heat distortion that is suitable for injection molding and extrusion. This portfolio features: high toughness, very high impact, medium flow, great mechanical strength and rigidity, high impact at sub-zero temperatures.
Star Plastics Star Prime®	A custom, high performance compound that is built with the most stringent specifications. May be used to produce molded or extruded articles or as a component of other industrial products.

Acrylonitrile Styrene Acrylate (ASA + AES)

LyondellBasell Centrex®	This portfolio is meant for injection molding, featuring: low temperature impact resistance, high gloss, good processability,
	UV resistant, good weather resistance, high impact resistance.

Ethylene Vinyl Acetate (EVA)

Celanese Ateva®	This is a multi-purpose resin commonly used for flexible packaging coextrusion to provide superior sealability, opticals, and strength, high quality microcellular crosslinked foam, extrusion, injection molding, and tubing applications.
DOW ELVAX	An ethylene-vinyl acetate copolymer resin used in industrial applications. Can be used in a variety of applications involving molding, compounding, extrusion, adhesives, sealants, and wax blends.
Westlake Chemicals Elevate	Designed for flexible packaging that requires excellent optical properties and low heat seal initiation temperature. It is also suitable for profile extrusion, molding, and foam applications.

High Density Polyethylene (HDPE)

Chevron Phillips Marlex®	Tailored for lightweight blow molded applications that require: exceptional ESCR, excellent surface appearance, good melt strength, durability. Typical blow molded applications include: Fuel containers/tanks.
DOW" HPDE	Intended for use in pipe applications where long term hydrostatic strength and resistance to slow crack growth are desired. Suitable applications include natural gas distribution pipes, large diameter industrial piping, mining, sewage, and municipal water service lines.
DOW UNIVAL*	A family of HDPE featuring various combinations of stiffness and toughness. The product is specifically designed to provide excellent processing in all extrusion blow molding equipment. Main characteristics include: excellent processability, high melt strength and excellent ESCR.
LyondellBasell Alathon®	This portfolio is used in applications requiring high resistance to pipe failure by rapid crack propagation and slow crack growth mechanisms. Typical use includes pressure pipe applications including gas distribution, industrial piping, mining, oil & gas gathering, municipal water service lines and sewers.

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Linear	Low Densi	tv Poly	ethv	lene (I I DPF
Lilleai	LOW Deligi	Ly FUI	eury	iclic (LLVIL

Chevron Phillips Marlex®	Tailored for blown film applications that require: good toughness properties, good drawdown, excellent processing. Typical blown film applications include: industrial films and bags, thin gauge applications, general purpose packaging.
DOW" LLDPE	This portfolio offers outstanding flex life, toughness and ESCR. It is well-suited for use in blow molding applications such as extruded flexible hoses and tubing and for use in large blow molded parts, such as drum liners. Additionally, it may also be used in certain sheet and tubing applications where these properties are also important.
DOW FINGERPRINT*	Tailored for use in micro irrigation tube, durable hose and tube, profile extrusion, and injection molded fittings applications. Main features: outstanding ESCR, excellent burst strength, excellent consistency and extrusion characteristics, excellent flexibility for easy roll-out.

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Medium Density Polyethylene (MDPE)	
Chevron Phillips Marlex®	Tailored for rotational molding applications that require: wide processing window, excellent impact strength, good flow and excellent ESCR. Typical applications include: Industrial waste containers and tanks.
DOW" MDPE	This portfolio is designed for rotational or injection molding applications requiring excellent processabilty and aesthetics combined with low warpage and good mechanical properties such as intermediate bulk containers, storage tanks or water tanks. Key features include: heat and UV stabilization that leads to good color retention long life expectancy, excellent impact strength and ESCR.

Methacrylate Butadiene Styrene (MBS)

INEOS Styrolution ZYLAR®	This portfolio provides a balance of clarity and toughness with outstanding strength and rigidity. It also offers superior
INEOS SIGIOIULION ZTLAR	processing characteristics for demanding injection molded applications, making it ideal for industrial housings and covers.

Polyamide/Nylon (PA)

Avient Nymax[™]

	as well as weatherability for outdoor applications.
Nylene®	A portfolio of general-purpose nylon 6 injection molding resins suitable for applications in both thin and heavy sections requiring typical nylon characteristics and easy molding.
Celanese Zytel®	This portfolio is proven in a wide range of tubing and hosing applications and delivers high-performance benefits ranging from

stiffness to chemical resistance. Portfolio is compatible with oil and gas applications.

Properties include strength, durability, stiffness, and impact resistance. Can be tailored to provide chemical and flame resistance,

Polypropylene (PP)

LyondellBasell Pro-fax	Family of homopolymers, random and impact copolymer polypropylene products with a wide range of performance		
INEOS PP	A nucleated and antistatic polypropylene homopolymer portfolio designed for injection molding applications such as rigid packaging. These products offer fast cycle times, high stiffness, and low static charge.		
Avient Maxxam [™]	Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance.		

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Polyvinylchloride (PVC)

GEON® Fiberloc

A high flow family of PVC that is widely used in fluid handling applications. Common applications include: piping and potable water.

GEON® Rigid

This rigid, impact-modified PVC is widely used in fluid handling applications as well as general purpose and is impact modified.

Thermoplastic Elastomer (TPC-ET)

Celanese Hytrel®

Combines the flexibility of rubber with the strength and processability of thermoplastics. Key features include: resilience, heat and chemical resistance, as well as strength and durability. Developed for protection against light degradation. Applications include: tubes and hoses.

Thermoplastic Polyurethane (TPU)

Covestro Texin®

Can be processed by injection molding, extrusion or blow molding. Characterized by outstanding abrasion resistance, impact strength, toughness and flexibility. These products also exhibit excellent hydrolytic stability. Typical applications include gaskets, hose, tubing, connectors, belting and miscellaneous molded articles.







At Formerra, we're prepared to help you mitigate risk, optimize design, and accelerate commercialization.



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Market Intelligence

Material Selection

Custom Formulations

Manufacturing Optimization

Technical Support

Supply Chain Optimization

Regulatory Compliance Support

Global Reach

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