

High-performance Polyethylene for Rotational Molding

Increase productivity and lower costs
with our innovative resins and compounds



Pellets

Established portfolio
with proven solutions



Powders

A wide range of natural
to custom colors



Specialties

Optimizing performance
and appearance through
custom design





For over 50 years, LyondellBasell's polyethylene resins have been the material of choice in the rotational molding market. Our comprehensive suite of superior performance resins includes high-density polyethylene (HDPE) and linear low-density polyethylene (LLDPE) in either pellet (*Petrothene*) or powder (*Microthene*) form.

As a leading supplier of rotational molding products, we offer the most comprehensive portfolio of resins, compounds, specialty grades, color, and processing services. Backed by decades of experience, we can meet virtually any of your processing or performance needs. From density, melt flow, and impact resistance to color, Environmental Stress Crack Resistance, grind type and performance, LyondellBasell has you covered.

Product Benefits

- Increase rotomolding productivity and reduce energy costs with faster curing rates
- Improve aesthetics with a smoother internal surface finish and improved color
- Reduce operational costs with full cure at lower process temperatures
- Design for performance through custom colors, compounding, surface treating, flame retardants V0/V2, and cross-linkable HDPE

Some typical applications



Sports
Equipment



Toys



Industrial
Packaging



Recreational
Vehicles



Industrial
Tanks



Agriculture
Equipment

North America Rotomolding Grades

Grade Name	Polymer	Density	MFI	Special Features	Typical Application
Natural Pellets / Powder					
GA625962 / MP625962	LLDPE	0.935	5.0		General-purpose LLDPE; marine, RVs
GA635962 / MP635962	LLDPE	0.935	6.7		High-flow LLDPE; Playground equipment, toys
GA643962 / MP643962	LLDPE	0.940	3.6		Small tanks, IBC containers, playground equipment, kayaks, canoes
GA652962 / MP652962	HDPE	0.942	2.0		High stiffness HDPE; large tanks, IBC containers
Icorene 1615	LLMDPE	0.939	3.5	TUV Approved	Diesel, Biodiesel and DEF Tanks
Icorene 3550	LLDPE	0.935	5.0		Agriculture tanks, septic tanks, pallets, outdoor applications
Icorene 3560	LLDPE	0.935	6.7		Toys, playground equipment, general purpose applications
Icorene 3568	LLDPE	0.935	6.7	Natural powder only	Displays, general purpose applications, outdoor applications, toys
Icorene 3570	LLDPE	0.935	7.0	Very good surface finish	High-end coolers, general purpose applications
Icorene 3940	LLDPE	0.9395	3.6		Agriculture tanks, septic tanks, pallets, outdoor applications
Icorene 3950S	LLDPE	0.939	5.0		General purpose applications
Icorene 4220	HDPE	0.942	2.0		General purpose applications, outdoor applications, safety guards
Icorene C-517B	PE Copolymer	0.937	5.0	Conductive Black	Bins, covers & machining housings
Icorene C-420	PE Copolymer	0.931	5.0	Conductive Black	Bins, covers & machining housings
Polyaxis CP 735-35G	LLDPE	0.935	6.7	Commodity Black	General purpose applications
Polyaxis CP 812	LLDPE	0.932 to 0.939	5.0 to 70	HB UL94	General purpose applications
Polyaxis CP 813-31	LLDPE	0.932 to 0.939	4.5 to 6.5		General purpose applications
Polyaxis LLP 3550	LLDPE	0.937	5.0		Agriculture tanks, septic tanks, pallets, outdoor applications
Polyaxis LL 3568	LLDPE	0.936	6.8		Displays, general purpose applications, outdoor applications, toys
Polyaxis LL 3940	LLDPE	0.936	3.3		Agriculture tanks, septic tanks, pallets, outdoor applications
Polyaxis HD 4220	HDPE	0.942	2.0		General purpose applications, outdoor applications, safety guards
Polyaxis HD 4860	HDPE	0.948	5.0		Outdoor applications, safety guards, tanks
Polyaxis LP 8000	mHDPE	0.947	3.6	Very good cold impact	Kayaks, canoes, boats
Polyaxis LP 8100	mHDPE	0.947	5.8	Very good cold impact	Kayaks, canoes, boats
Polyaxis RLLP 622	HDPE	1.02	6.5	V-2 Flame Retardant	Bins and industrial parts
Polyaxis RLLP 626	HDPE	1.10	5	V-0 Flame Retardant	Engine housing, machine covers, electrical covers
Schulink XL 350-S	XLPE	0.944		Natural or Black only, HB UL94	Fuel tanks, chemical tanks
Schulink XL 351	XLPE	0.944		Colors	Fuel tanks, chemical tanks

ABOUT US

As a leader in the global chemical industry, LyondellBasell strives every day to be the safest, best operated and most valued company in our industry. The company's products, materials and technologies are advancing sustainable solutions for food safety, access to clean water, healthcare and fuel efficiency in more than 100 international markets. LyondellBasell places high priority on diversity, equity and inclusion and is *Advancing Good* with an emphasis on our planet, the communities where we operate and our future workforce. The company takes great pride in its world-class technology and customer focus. LyondellBasell has stepped up its circularity and climate ambitions and actions to address the global challenges of plastic waste and decarbonization. For more information, please visit www.lyondellbasell.com or follow @LyondellBasell on LinkedIn.

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