

Icorene EMEA product range 2021 – 2022

Rotomolding powders for agricultural vehicles

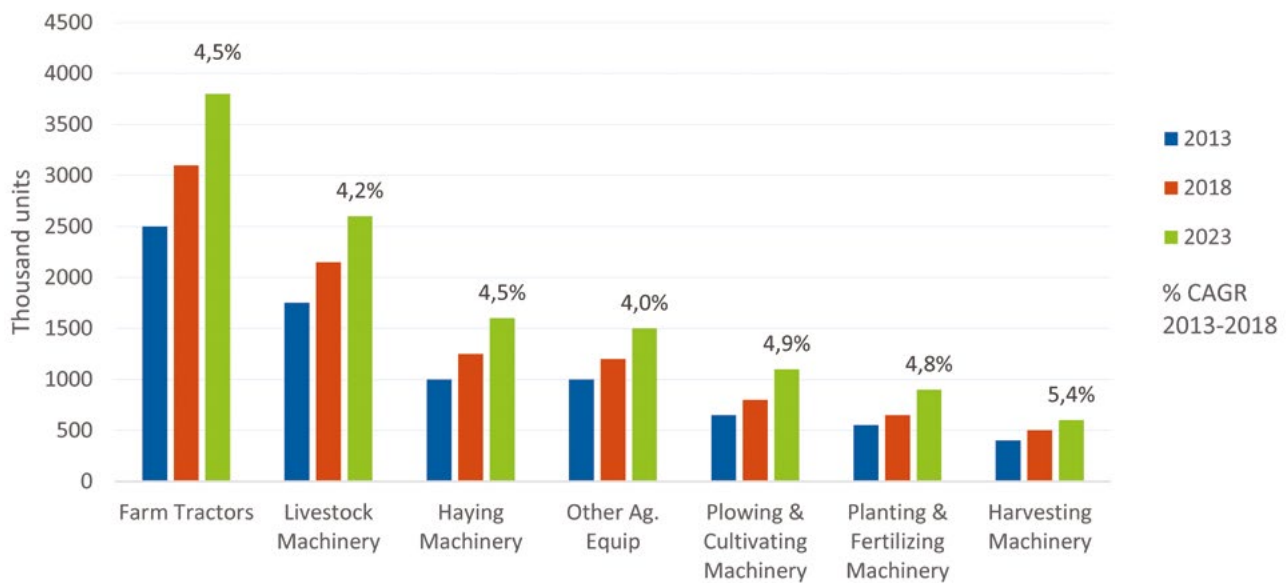


Welcome

The farming and construction machinery market is growing and is also getting more sophisticated. Customers require an edge to differentiate themselves in this competitive market.

LyondellBasell can provide the solutions with our extensive portfolio of *Icorene* grades providing strong, tough, durable and lightweight solutions to withstand harsh conditions at the right price.

World Agricultural Equipment Demand by Type



Even though many agricultural off-road vehicles are not subject to the same European approvals needed for road vehicles, LyondellBasell believe that offering grades that meet the ECE regulations provide a safer end product that gives confidence to the OEM's and customers alike. Many of our materials have several approvals, like TÜV and DIBT, having proven performance in the field over many years and incorporating our high technical service philosophy.

LyondellBasell is a leading supplier of Rotomolding Powders in Europe and working together we deliver the solutions for all your projects with our extensive portfolio of *Icorene* grades.

With four powder production facilities located in France, Holland, Italy and the UK, providing service, security of alternate production sites, customers can have peace of mind when working with LyondellBasell.

LyondellBasell is continually developing new innovative specialized grades to open new opportunities for our molding customers & OEM's. Together with the service and technical ability we bring your new projects to the market.

Roof

As the roof is exposed to direct sunlight, you need a material which has a good UV resistance, is extremely tough yet easy to mold.

Icorene reference	Characteristics
3855	Higher stiffness, tough hexene with good flow properties
3575	Medium stiffness, easy to mold hexene with high flow
6005	Foam for insulation, creating segregated sections
1460	Medium stiffness metallocene with high cure speed and wide impact window



Mudguards

Mudguards need to be tough with extremely high impact. You can't beat Icorene 1210 which is a tough Hexene linear low density PE with a very high Environmental Stress Crack Resistance.

Icorene reference	Characteristics
1210	Low density, tough hexene, excellent impact, high ESCR

Cab interior

The aesthetic value for cab interiors needs to be high, yet with a tough impact and good scratch resistance.

Icorene reference	Characteristics
3855	Higher stiffness, tough hexene with good flow properties
3560	Medium stiffness, easy to mold
4014	PP copolymer, hard and stiff and good scratch resistance
5045SL	High scratch resistance, extremely rigid, hard and tough



Air-ducting

Icorene 4014 is ideal because of its stiffness and higher temperature resistance. Icorene 9402 is a unique TPE grade with extreme toughness. Backed with foam you have an amazing performing laminate providing insulation, heat resistance with unmatched impact properties

Icorene reference	Characteristics
4014	PP copolymer, higher temperature range than PE, hard & stiff
9402 TPE	High and low temperature range (-50 to 100°C), excellent impact
6005	Foam for insulation, creating segregated sections for ducting

Coolant tank

Coolant tanks specially require material with a good Environmental Stress Crack Resistance.

Icorene reference	Characteristics
1613	Good ESCR, impact strength and stiffness, TÜV & DiBt approved material
1505 Xlink	Higher temperature resistance than PE, TÜV approved material
1380	Very high ESCR & impact with good stiffness, TÜV approved material
1440	High density metallocene with very good impact properties



Hydraulic oil tank

For hydraulic oil tanks you need a grade which has higher heat resistance as the fluid increasing in temperature. Therefore, a high performance grade is needed in combination with a good permeation barrier.

Icorene reference	Characteristics
7620FL PA6	Excellent permeation resistance, high heat resistance
4014	PP copolymer, higher temperature range than PE
1505 Xlink	Higher temperature resistance than PE, TÜV approved material

Diesel tank ■

Icorene grades are known as the market leader in Europe for production of diesel tanks. If the tank is subjected to higher temperatures, Icorene 1505 is the right material.

Icorene reference	Characteristics
1613BK85	Good ESCR, impact strength and stiffness, TÜV & DiBt approved material
1505 Xlink	Higher temperature resistance than PE, TÜV approved material
1440	High density metallocene with very good impact properties
1380	Very high ESCR & impact with good stiffness, TÜV approved material



Ad-blue tank ▨

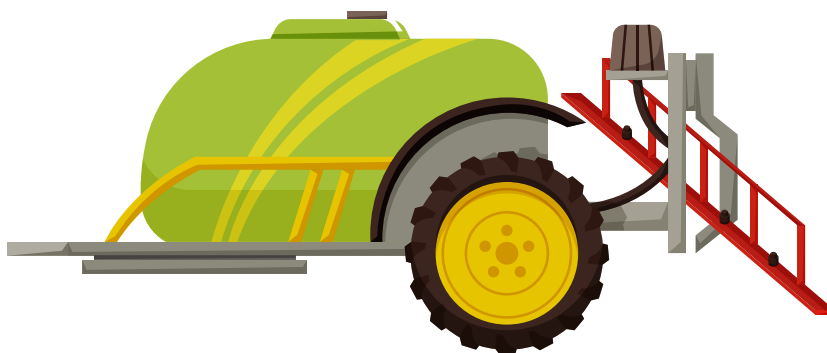
Icorene grades have proven to be ideal for the combination of Ad-blue & diesel tanks. When the tank is placed closer to the engine, Icorene 1505 is required due to higher temperature resistance.

Icorene reference	Characteristics
1613BK85	Good ESCR, impact strength and stiffness, TÜV & DiBt approved material
1505 Xlink	Higher heat resistance than PE, TÜV approved material
1440	High density metallocene with very good impact properties
1380	Very high ESCR & impact with good stiffness, TÜV approved material

Chemical spray tank ■

As chemical liquids are stored in the spray tanks, you need a suitable grade which is resistant to the liquid in combination with a high UV protection.

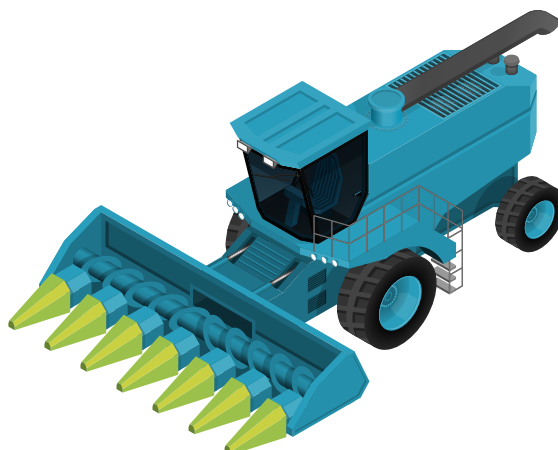
Icorene reference	Characteristics
1613	Good ESCR, impact strength and stiffness, TÜV & DiBt approved material
1505 Xlink	Increased chemical resistance, TÜV approved material
1314	Very high ESCR & impact with good stiffness, TÜV & DiBt approved material
1380	Very high ESCR & impact with good stiffness, TÜV approved material



Harvester adapters ■

For harvester machines a very stiff material with a good wear resistance is required to prevent damage on the adapters.

Icorene reference	Characteristics
5045SL	Extremely rigid, hard and tough, good wear resistance
1505 Xlink	Good stiffness, High ESCR, TÜV approved material
1339	Very high stiffness, high impact strength and ESCR
1380	Very high ESCR & impact with good stiffness, TÜV approved material



ABOUT US

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by its employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road, and ensuring the safe and effective functionality in electronics and appliances. LyondellBasell sells products into more than 100 countries and is the world's largest producer of polymer compounds and the largest licensor of polyolefin technologies. More information about LyondellBasell can be found at www.LyondellBasell.com.

For more information, visit lyb.com

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