

RESINEX, a part of RAVAGO Group, is a leading European supplier of plastics and rubbers with local branches and warehouses in all European countries. The RESINEX portfolio consists of over 10,000 items from commodity plastics PE, PP, PS through engineering plastics ABS, PC, PC / ABS, PA6, PA66 to special polymers such as POM, PBT, LCP, PPS, TPE, TPU, PMMA, PA12, PA11 and others. RESINEX is the official distributor of companies including Dow Plastics, Styron, Solvay, Celanese, LG Chem, Braskem, DSM, Total, Altuglas, Arkema, ExxonMobil and others (representation may vary in different countries).

Even Being The Best Is Sometimes Not Enough. Therefore We Try Harder. Resinex, The original and still the best plastics Distributor.

RESINEX News

MAGNUM™ ABS Unique Production, Unique Properties

MAGNUM™ ABS resins from Trinseo are available in a wide range of injection molding and extrusion grades, specifically designed for applications including automotive, appliances, building & construction, packaging and sheet & profile extrusion.

MAGNUM™ ABS resins are produced in a continuous process that yields a resin with a highly consistent, white base color resulting in a combination of excellent processability and aesthetics, which make it suitable for self coloring.

What Benefits does RESINEX Offer with MAGNUM™ ABS?

- Best-in-class ABS used by leading automotive OEMs
- High surface quality of extruded profiles and sheets
- High thermal stability
- Matt surface aesthetics
- Very low odour and low VOC (volatile organic compounds)
- Natural white colour
- Excellent lot-by-lot stability
- Local warehousing and Technical Sales force in every European country
- Automotive experts ready to support your projects

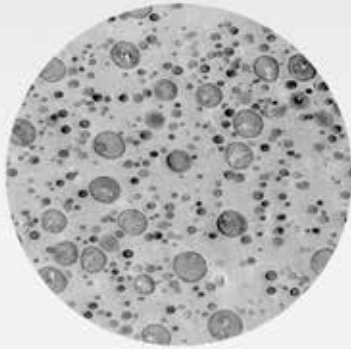

TRINSEO™

Trinseo is a leading global materials company and manufacturer of plastics, latex and rubber, dedicated to collaborating with customers to deliver innovative and sustainable solutions. Trinseo's technology is used by customers in industries such as home appliances, automotive, electrical & lighting, rubber goods and tires. Trinseo had approximately USD 5.3 billion in revenue in 2013, with 20 manufacturing sites around the world, and 2100 employees

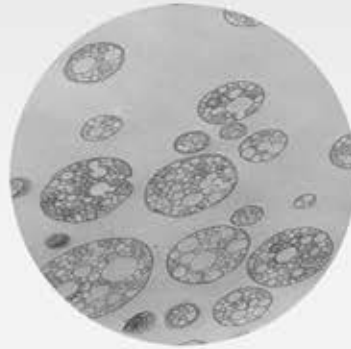
It is All about the Production Process

- Trinseo is the leader in mass-solution technology
- Most other producers use emulsion and/or suspension technology

Mass-solution process enables production of very clean ABS without impurities that is not possible by standard emulsion polymerisation. Thanks to eliminated impurities, MAGNUM™ ABS provides a number of unique benefits for automotive or extrusion applications such as ultra low emissions and VOC (volatile organic compounds), higher thermal stability and improve UV resistance, superior surface quality of extruded sheets and profiles. MAGNUM™ ABS also offers very matt aesthetic required mainly for interior automotive components.



Microphoto of emulsion ABS



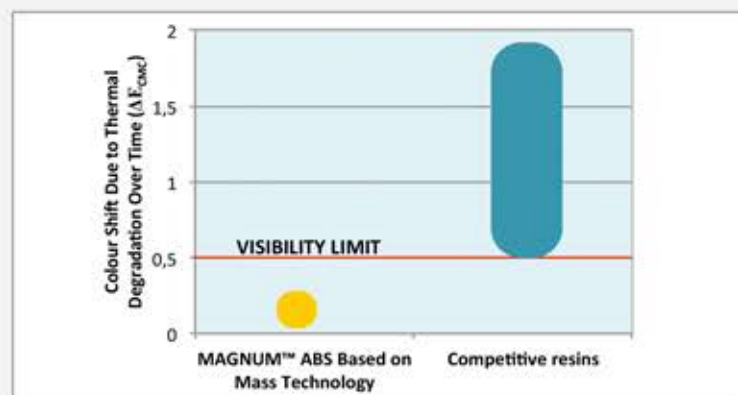
Microphoto of MAGNUM™ ABS



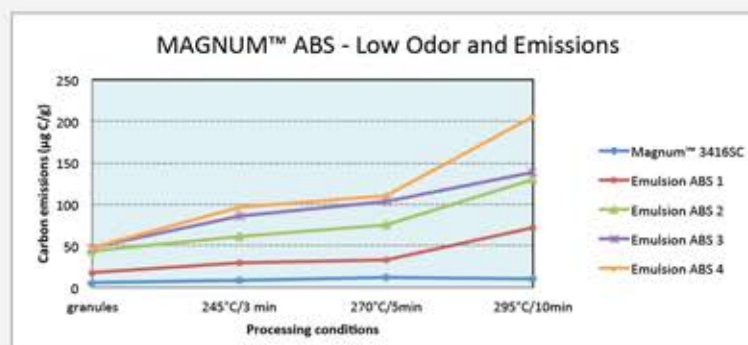
Yellowish color of typical emulsion ABS vs. white natural color of MAGNUM™ ABS.

Thermal Stability

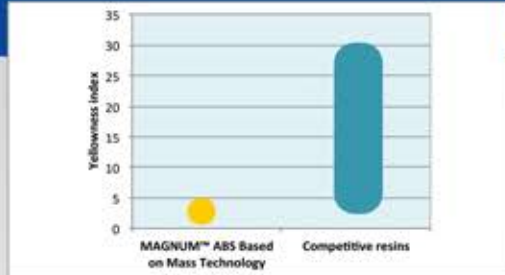
MAGNUM™ ABS resins provide among the best thermal characteristics in the industry, resulting in higher color stability.



Higher thermal stability also provides benefits of lower emissions and fogging even at higher processing temperatures. Magnum™ ABS can be also processed at higher temperatures and thus has a wider processing window thanks to the higher thermal stability.



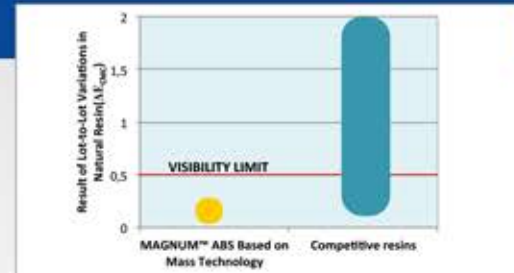
White Natural Colour



MAGNUM™ ABS resins have exceptionally low base color, allowing lower pigment levels for your desired injected or extruded product color.

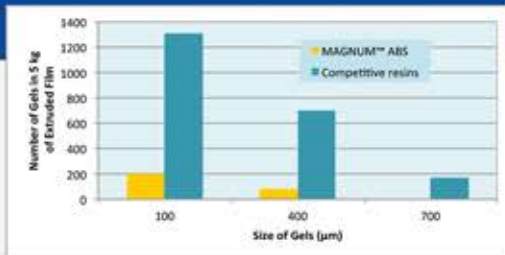
Consistency

MAGNUM™ ABS resins have more consistent colour and properties lot-by-lot making it easier for self-coloring and shortening set-up times at your machines.



Low Gels

MAGNUM™ ABS resins have one of the lowest gel levels in the industry, resulting in smoother extruded sheets and profiles with excellent aesthetics.



Magnum Grade Overview

	Grade	MFI [g/10min]	Vicat [°C]	Flexural Modulus [MPa]	Charpy nothod (23°C) [kJ/m²]	Properties
Auto-motive grades	3416 SC	6,5	108	2200	17	Very high heat resistance with good impact and excellent processability. Low odor & VOC.
	3416 SLG	8,5	107	2050	12	Ultra low gloss performance and very high heat resistance. Low odor & VOC.
	3525/3325 MT	11	101	2100	17	Matt surface finish with excellent processability. Low odor & VOC.
	3616	5,5	107	2100	25	High heat resistance with high impact. Low odor & VOC.
	3904	4,5	97	1820	37	Super high impact grade.
Engineering grades	3404	6,6	102	2100	18	Extrusion grade with outstanding processability.
	3453	25	97	2300	20	General injection molding grade.
	3504	5,2	102	2050	23	Extrusion, high impact grade.
	3513	8,5	101	2200	24	High impact with good flowability.
	8434	13	101	2100	19	Excellent processability, glossy surface.
	8391	28	95	2400	19	Very high flow with excellent glossy appearance.

Typical Applications

Automotive

- Mid consoles
- Dashboard components
- Door panels
- Interior trims
- Trunk trims
- Taillight housing
- Pillar covers
- Glove boxes



Extrusion

- Profiles and sheets
- Shower trays
- Door panel facing
- Ski boxes
- Furniture edge profiles

Appliances

- Vacuum cleaner housings
- Kitchen robot housing
- Control panels white goods

General Injection Moulding

- Audio/video front panels
- Office stationary
- Computer housings
- Toys



Door Panels

For every car segment, MAGNUM™ ABS provides cost-effective solutions for high-quality door panels.

MAGNUM™ market leading resins enable the production of door panels that have excellent heat resistance and dimensional stability. Increasingly important is also the low odor and emission performance of these mass ABS products.

Mid Consoles

Mid consoles have become the central storage areas for most vehicles, holding everything from music CDs and beverages to maps. For top-of-the-line mid consoles, Styron offers several ABS resins, from the MAGNUM™ ABS family, which feature very high-heat resistance in combination with excellent impact performance. In addition, these products have excellent processing characteristics and allow for easy painting and good skin adhesion.

The lower sides of the mid-console are usually in areas which can get damaged during the life of the vehicle, mostly coming from kicking and scuffing when people assume their seating position. MAGNUM™ ABS allows our customers to lessen the permanent damage to these parts.