

SABIC  
Innovative  
Plastics™

سابك  
sabic

Geloy\* ASA resin



It's like sunblock for your house.

Sharing our futures

The red sport utility vehicle in the driveway. The hot tub in the backyard. The window panes on the house. It doesn't matter whether you purchased them last week or during the last decade, odds are they include a Geloy\* resin grade from SABIC Innovative Plastics. Geloy ASA resin, a product that has proven itself in hundreds of applications for many years, is equipped to handle many applications that require supreme weatherability and color retention.

One of the most weatherable polymers in SABIC Innovative Plastics' portfolio, Geloy resin offers exceptional durability in outdoor environments. It retains its color and mechanical properties under prolonged exposure to sunlight, moisture and heat. Geloy resin are used widely in most plastics processes, including extrusion, coextrusion, thermoforming and injection molding, just to name a few.

Geloy resin is a trusted and reliable material that has been used in the building and construction industry for years. Applications that incorporate Geloy resin include extruded solid profiles for window lineals and door profiles, cap stock for co-extruded house siding and windows, gutter systems, fencing and spa or pool steps.



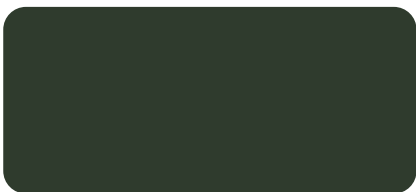
Geloy\* weatherable resin is composed of a modified terpolymer, which is formed by blending an amorphous thermoplastic copolymer of acrylonitrile (A) and styrene (S) with an elastomeric component. The latter is typically based on acrylate rubber (A) or possibly other elastomers. The difference between an ABS and an ASA is the use of the acrylic elastomer. Each of the three monomers offers different properties. The use of a three monomer system therefore allows the property profile of the Geloy resin to be tailored to meet a broad range of end-use requirements.

The use of saturated rubber gives the Geloy resin family its long-term UV resistance, thereby enabling it to retain its high level of impact strength, gloss and color after prolonged exposure to all kinds of adverse environments.

As a result, savings can be achieved through the elimination of costly painting of applications.



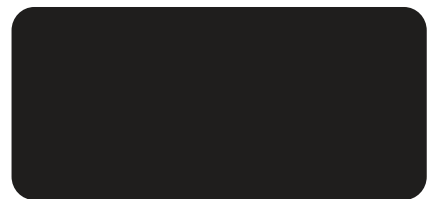
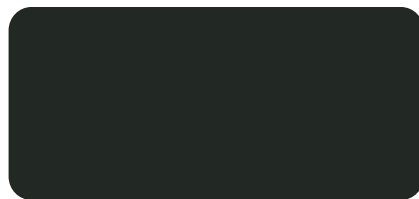
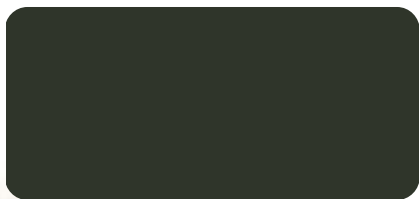
SABIC Innovative Plastics can custom color your Geloy\* resin to meet your exact design specifications. Shown here are examples\* of our most popular resin colors.



\*Samples shown do not adequately reflect actual material colourability. Contact SABIC Innovative Plastics for more information on color matching.

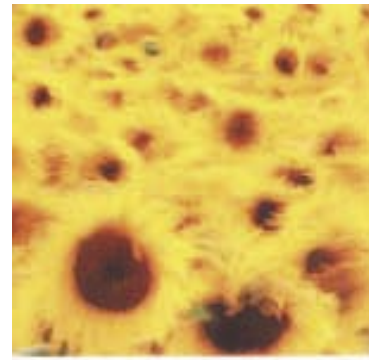


Geloy\* resin style doesn't stop with color. Add a sparkle, shimmer, marble or other surface look with SABIC Innovative Plastics' exclusive Visualfx\* technology.



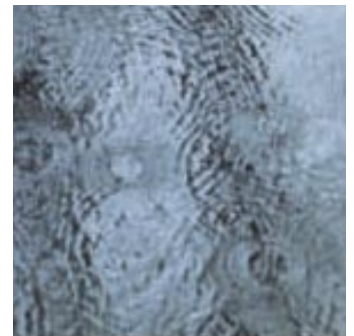
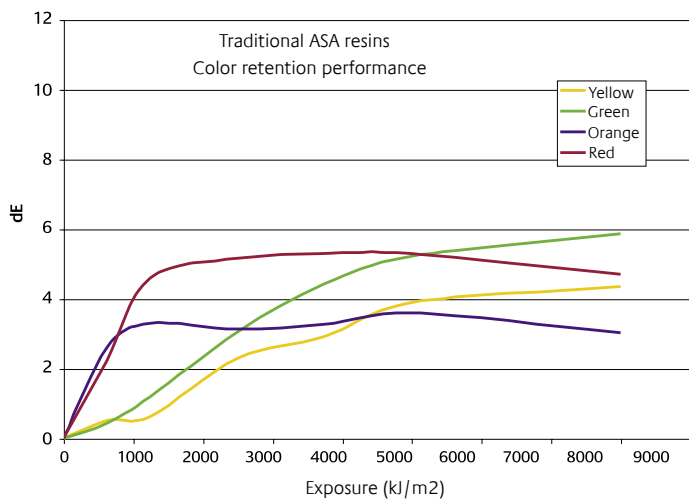
## The Gelyo\* product line

The Gelyo product line includes straight ASA and blends of ASA with PC. The product line is globally available and grades have been tailored for the major thermoplastics conversion processes. The Gelyo extrusion grades can be easily thermoformed or coextruded over PVC and other substrates such as Cyclocac\* ABS resin.



Besides great color retention and extreme weatherability, Gelyo resin can meet your needs through its other unique characteristics

- Gloss retention
- Mechanical performance retention
- High or low gloss finish
- Good chemical resistance
- Good processability
- Good paintability and platability
- Wide color range
- Good impact resistance



The Gelay\* XTW resin grades takes these features to the extreme, with added protection from the punishing effects of UV radiation. Its superior color and gloss retention is three to five times better than traditional ASAs.

High color and gloss retention properties make Gelay resin a perfect choice for many applications across diverse industries.

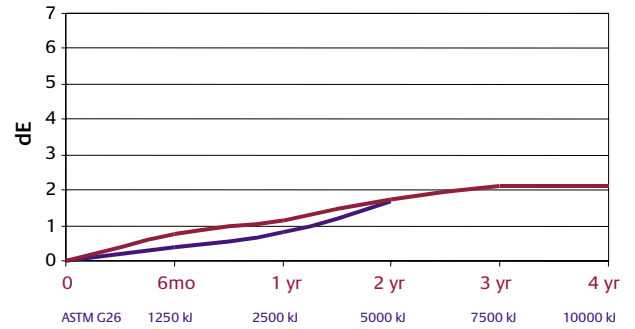
**Chemical resistance overview weatherable capstock**  
**Chemical resistance after 24 hour exposure**

Exposure Chemical	Gelay	PVC
Turpentine	--	--
Vinegar	--	--
Ammonia	--	--
Mineral Spirits	--	--
Lestoil*	--	--
Comet* (Water Slurry)	--	--
Acetone	***	**
Isopropanol	+	--
Unleaded Gas	+++	--
Raid* (House & Garden)	--	--
Muratic Acid (HCl)	--	--
Windex*	+	--
Chloroform	***	**
Zip strip* (CH <sub>2</sub> Cl <sub>2</sub> )	***	**
Lemon Pledge*	--	--
Ortho* (Hornet & Wasp)	--	--
Chlorox* Bleach	--	--
Naptha (Lighter Fluid)	--	--

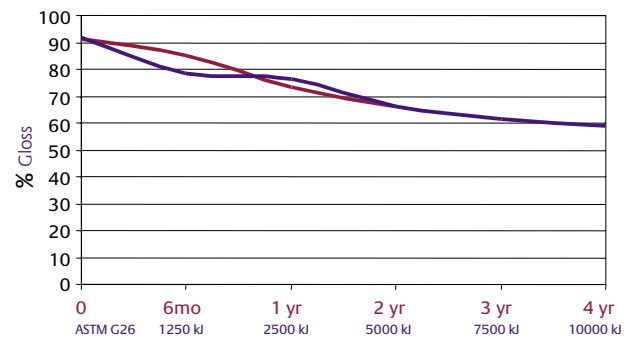
No Visible Change	--
Slight Color Shift	+
Moderate Color Shift	++
Severe Color Shift	+++
Swelling & Color Shift	**
Dissolved Polymer	***

Accelerated Weathering according ASTM G26 2500 kJ represents approximately 1 year Natural weathering conducted in Florida, USA. Material used Gelay XTW ASA resin - black

**Color retention of Gelay resin**



**Gloss retention of Gelay resin**



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