

Cycoloy™



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plastics

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HIGH IMPACT STRENGTH IN A WIDE RANGE OF TEMPERATURES

Cycoloy™ is a blend of polycarbonate (PC) and acrylonitrile-butadiene-styrene (ABS) resins, which results in a material that combines the best properties of both materials.

CYCOLOY™ ADVANTAGES OVER OTHER THERMOPLASTICS, INCLUDE HIGH IMPACT STRENGTH IN A WIDE RANGE OF TEMPERATURES, GOOD HEAT RESISTANCE, AND EXCELLENT DIMENSIONAL STABILITY. IT IS A VERSATILE MATERIAL THAT CAN BE USED IN A WIDE RANGE OF APPLICATIONS, INCLUDING AUTOMOTIVE, ELECTRONICS, CONSUMER GOODS, AND INDUSTRIAL APPLICATIONS.

CHARACTERISTICS

Cycoloy™ resin blends offer a perfect balance of processing ease and low-temperature ductility. These amorphous thermoplastic blends exhibit remarkable impact resistance, heat resistance, and visually appealing aesthetics. When both appearance and durability are crucial, Cycoloy™ resin blends serve as an exceptional design solution. Characteristics and properties found across the product line include:

- High impact strength
- High impact strength at low temperatures
- Good heat resistance
- Excellent dimensional stability
- Good chemical resistance
- Good electrical properties
- Good flow properties
- UV resistance
- Flame retardant versions available



Automotive and Mobility

Cycoloy™ provides versatility in terms of design options and surface finish, allowing for aesthetic customization in automotive interiors and exteriors.

Applications include:

- Interior and lighting components
- Exterior body parts
- HVAC components
- Engine and under-the-hood components
- Structural supports and brackets



Construction

Cycoloy™ provides dimensional stability, ensuring consistent performance in construction components, and exhibits resistance to weathering, UV radiation, and chemicals.

Applications include:

- Window/door frames and roofing components
- Electrical conduit and fittings
- HVAC components, plumbing and pipe fittings
- Structural safety components
- Construction tools and equipment



Consumer Goods

Cycology™ offers versatility in terms of design possibilities and aesthetic customization, enabling the creation of visually appealing and attractive consumer goods.

Applications include:

- Electronics and appliances
- Sporting goods and recreation
- Personal care products Luggage and travel accessories
- Home improvement and tools
- Automotive accessories
- Toys and games
- Household products

Electrical and Electronics

Cycology™ provides excellent electrical insulation properties. It exhibits good impact resistance, which helps protect electronic devices from mechanical shocks and impacts. Its heat resistance ensures stability and performance even in elevated temperature environments.

Applications include:

- Enclosures and housings
- Connectors and terminal blocks
- Switchgear components
- Circuit breaker components
- Lighting components
- Consumer electronics
- Data and communication equipment



Industrial

Cycology™ provides good dimensional stability, ensuring consistent performance in industrial components, and its resistance to chemicals and environmental factors further enhances its suitability for industrial settings.

Applications include:

- Equipment housings
- Tooling and fixtures
- Industrial machinery parts
- Safety equipment and personal protective gear
- Conveyor systems and material handling equipment
- Industrial storage containers

Medical

Cycology's™ ability to withstand commonly used disinfectants makes it suitable for healthcare settings where stringent sterilization is necessary.

Applications include:

- Medical equipment housing
- Drug delivery devices
- Surgical and dental instruments
- Medical device components
- Hospital and laboratory equipment
- Rehabilitation and assistive devices

Learn more at nexeoplastics.com/sabic/cycology or contact us to request a free sample.

Nexeo Plastics
1780 Hughes Landing Blvd
Suite 1000
The Woodlands, TX 77380 USA
nexeoplastics.com

To Place Your Order:
US & Canada: 833.446.3936
getplastics@nexeoplastics.com
Mexico: +52 55 4749 1710
ventas@nexeoplastics.com

For Technical Questions:
US & Canada: 866.430.9666
Mexico: +52 81 1182 5109
techconnect@nexeoplastics.com



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