Markets and End-Use Applications

Electrical

Matrix trays (semiconductor chip production)

Automotive

Windscreen wiper caps, gear shift levers, fuel pumps, heater/air conditioner control system components, interior door handles, seat belt components

Appliances

Business machine bearings and gears (printers and photocopiers), washing machines, valve stems, pump impellers, carburetor bodies, power tools

Industrial

Metal substitution, conveyor belt links, irrigation equipment and valves, springs, pumps, valves, timers

Sport & Leisure

Ski bindings

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Edgetek™ AT

Acetal (POM) Compounds

Product Bulletin

Speciality Engineered Materials

Product Description

The Edgetek™ AT product family is a range of unfilled, filled and impact grade acetal (POM) compounds. Using POM homopolymer or copolymer as the base resin, these materials offer a wide range of physical properties. Edgetek™ AT compounds are available pre-colored or can be colored during the manufacturing process with concentrates such as PolyOne's OnColor™ masterbatches.

The inherent crystallinity of Edgetek™ AT provides high strength, stiffness and hardness; good chemical and environmental resistance; low friction and wear; and low moisture absorption. Edgetek™ AT is available in a standard range or can be custom-formulated to meet your specific product and design requirements. Grades are available for both injection molding and extrusion applications. All compound grades are UV stabilized.

Value Solution

Edgetek™ AT's low coefficient of friction and excellent wear resistance lead to fewer field failures in moving parts. Due to its high dimensional stability, Edgetek™ AT can be a cost effective alternative to expensive metal parts. In addition, low moisture absorption makes Edgetek™ AT ideal for parts which exhibit tight tolerances in moist environments.

Edgetek™ AT compounds can be precolored with OnColor™ color concentrates, thus avoiding costly painting and secondary handling of the products.

Key Characteristics

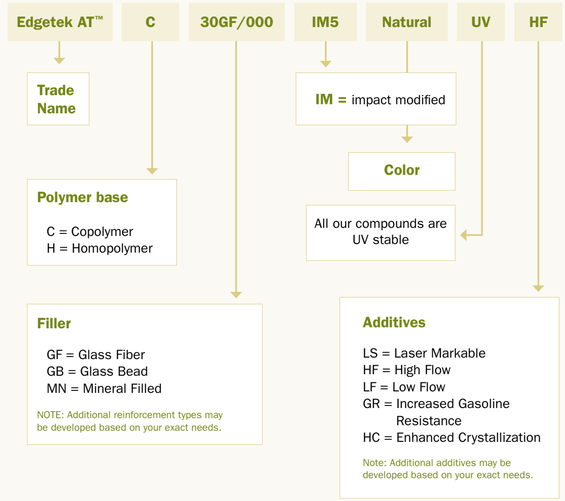
Edgetek™ AT's primary features and benefits are:

- Excellent stiffness/toughness, even at low temperatures
- Very good fatigue endurance
- Low friction and wear
- Low moisture absorption
- Very good dimensional stability
- Excellent chemical resistance

Edgetek AT's secondary features and benefits are:

- Very good creep resistance
- Good electrical properties
- Can be easily processed by injection molding or extrusion

Edgetek AT™ ATC-30GF/000 IM5 Natural UV HF



Note: Unfilled and non-impact grades are identified by the MFI (Edgetek ATC-812)