

SPECIALTY MATERIALS

Injection Molded

UHMW Resin Compounds



**DIVERSIFIED
PLASTICS, INC.**

www.diversifiedplastics.net | 800-321-0084

Injection-moldable UHMW resin is an extraordinarily versatile material suited to thousands of industrial applications. Injection molding reduces time and cost relative to machining. It allows for production options such as over-molding on other materials, bonding with elastomers, and even molding around threaded metal inserts or objects. It makes it easy to mold-in valuable information such as company names and logos, part numbers, customer colors and manufacturing dates. And where perfection is a must, molded parts can be economically machined to exact tolerances.

MATERIAL GRADES

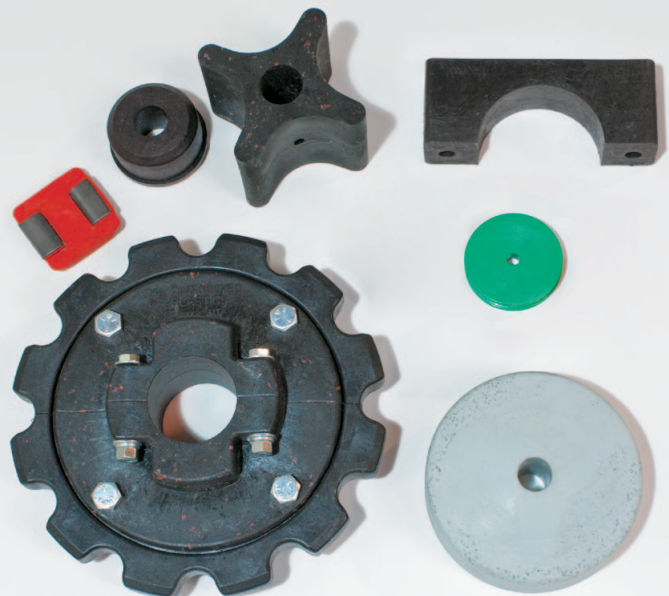
- Virgin ASTM D4020-01 natural or colored
- Reprocessed “White Chip Only” for a natural or colored look
- Reprocessed “Black Chip Only” for a pure black color
- Eco-grade Reprocessed “Multi-colored Chip” with flakes of different colors add an overriding black coloring agent to provide a mostly black look
- Different levels of abrasion-resistant molecular weight

COMMON ADDITIVES

- UV protection (longer life when exposed to ultraviolet rays)
- Oil Impregnated (reduce friction and noise)
- Silicone filled (reduce friction)
- X-Linking (higher abrasion and less thermal expansion and contraction)
- Metal detectable additives
- Glass filled (higher load ratings)
- Blowing agents (reduce thick cross-section voids and sinks)
- Antimicrobial stabilizers (added chemical resistance)
- Antistatic additive (dissipate electrical charge buildup)
- Custom color additives

OUR ADVANCED INJECTION MOLDING CAPABILITIES

enable clients to take full advantage of UHMW’s amazing versatility.



OUR UNIQUE MULTIFAB TECHNOLOGY™

We developed MultiFab to address a simple truth — different components of a given part often require different qualities for maximum performance. In some instances it may be best to use one material where strength is needed, but a different material where durability is needed. Our MultiFab approach enables us to do that by — for example — machining one component out of nylon, molding another from UHMW and assembling the two into a single part. The result is a better-wearing, longer-lasting and oftentimes less-expensive option.

IN-HOUSE CAPABILITIES

- Injection molding
- Fabricating
- Machining
- Polyurethane casting
- Design
- Engineering
- Quality assurance testing
- Performance testing

Diversified Plastics is a family-owned, Montana company with big capabilities and a proven history. Since first hitting the on switch in 1976, we've focused on winning customers, not contracts. That approach has earned us a strong reputation for meeting needs across a variety of industries — food processing, cement, agriculture, wastewater treatment, mining, timber, packaging / conveying and more. In addition, we are a leader in on-floor material recycling, which reduces waste, cost and our carbon footprint.



GET A QUOTE FOR YOUR PROJECT:

Call 800-321-0084
or visit www.diversifiedplastics.net and click “contact us”
for a sales representative near you.



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Consolidate with us.