

ReBound

MICROCELL



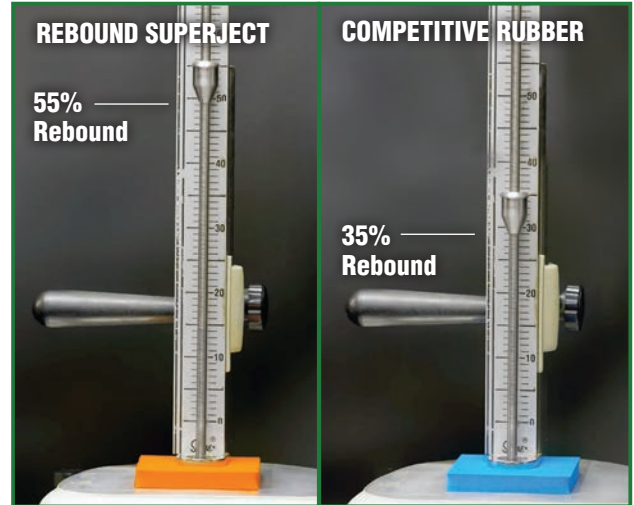
A full line of Microcell ejection materials exclusive to Freeman. The ReBound™ Rubber line offers superior resilience and long life.

REBOUND™ SUPERJECT™

Freeman's **ReBound SuperJect** is the newest and most exciting die ejection to hit the market in years. **ReBound SuperJect** is a superior microcell urethane ejector with over 50% more resilience or "rebound" than its microcell competitors.

Ideal for flat and rotary die ejection, ReBound's performance has proven exceptional with very low compression fatigue or degradation of cell structure. It also offers high tear strength and long life on press.

ReBound SuperJect has over **50% more resilience** than competitive microcell ejection materials and exhibits **23.1% less compression fatigue** after 100,000 impressions.

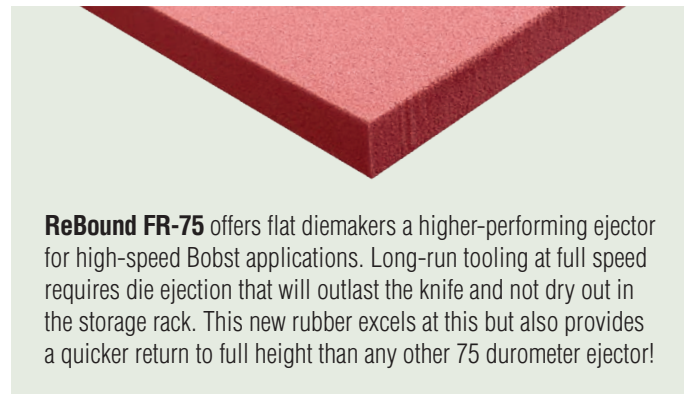


REBOUND™ ARMORCOAT™



ReBound ArmorCoat is a brand new development that utilizes the tremendous energy return of ReBound SuperJect with the addition of a patent-pending top coat. The Armor coating adds additional life on press as well as enhanced stripping characteristics.

REBOUND™ FR-75™



ReBound FR-75 offers flat diemakers a higher-performing ejector for high-speed Bobst applications. Long-run tooling at full speed requires die ejection that will outlast the knife and not dry out in the storage rack. This new rubber excels at this but also provides a quicker return to full height than any other 75 durometer ejector!

REBOUND™ NO-CRUSH™



ReBound No-Crush is a super-soft ejection rubber with very high tear strength that was designed to eliminate unwanted crush marks on corrugated board. It applies a soft touch on corrugated cartons yet works best when paired with ReBound SuperJect and Armor Coat in the scrap areas. These three products work in concert to create a dynamic stripping differential for the perfect rotary cutting die.

REBOUND™ DURAJECT™



Available with ArmorCoat for extended life on press!

ReBound DuraJect was developed as a USA made alternative to the very expensive imported Vulkollan®-type ejection materials. DuraJect is the most dense version of ReBound and is excellent for slots and tight areas on both flat and rotary dies. Extra-firm yet highly resilient, it is also perfect for lead and trail edge trim breaker rubber.

Did you know about Freeman's Better-Than-Money-Back Guarantee?

Try a sheet of ReBound with confidence using Freeman's Better-Than-Money-Back guarantee! This line of microcell rubber is guaranteed to perform better than competitive rubber or more than your money back! Contact your local Technical Account Representative to order your ReBound Ejection Rubber worry-free!

MICROCELL EJECTION RUBBER



Diansuply RD-73

Diansuply RD-73 is a red microcell firm ejector that has excellent properties for flat and rotary. It's been used with success for many years in long-run folding carton applications and is incredibly long-lasting.

- ✓ Flat applications
- ✓ High speed folding carton & paperboard
- ✓ With or without PSA



"We have been using Diansuply RD-73 for many years without fail.

Our dies run 3-6 million impressions without issue, job after job.

The knives will wear out before the RD-73 needs to be replaced. It's the only die ejection we will use."

“

Dave Hilton

Burd & Fletcher



Freeman Patriot Blue

Freeman Patriot Blue is a microcell medium ejector that has excellent properties for flat applications, such as offering less crush on corrugated board.

- ✓ Flat applications
- ✓ Rotary applications
- ✓ Corrugated board
- ✓ With or without PSA



"Patriot Blue rubber offers less crush on corrugated board than the competitor's red rubber.

The adhesive on Patriot Blue Rubber is much stronger than the adhesive on competitor's red rubber.

Once we apply the Patriot Blue rubber to the dieboard, it never comes off - the competitor's rubber does not completely stick until the die is run through the press."

“

Brian Verdonik, Plant Manager

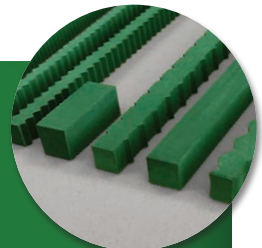
Wescott Displays - Detroit, MI



Diansuply GN-88

Diansuply GN-88 is a green microcell extra-firm ejector. It is an excellent slot rubber for tight areas on flat and rotary dies. Available in straight cut, side wave, max point, and ZAG styles, with or without PSA.

- ✓ Flat applications
- ✓ Slot rubber
- ✓ Tight areas
- ✓ With or without PSA

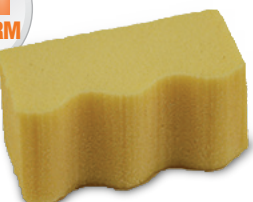


"We have used GN-88 with success for years in various heights and widths. We started using GN-88 ZAG for the carton industry, and now GN-88 ZAG is our #1 ejection material to use on slots, oval punches, and various cut outs."

“

Greg Hoff

Rule Designs Inc.



Dura-Bull

Diansuply Dura-Bull is the highest performance slot rubber available as well as an excellent trim breaker. This rubber can compress to 80% without lateral expansion and return to full height with no damage. Available in sheets, straight strips, scalloped, and ZAG, with or without PSA.

- ✓ Flat applications
- ✓ Rotary applications
- ✓ Slot rubber
- ✓ Tight areas
- ✓ Trim breaker rubber
- ✓ ZAG-Cut for tight slots

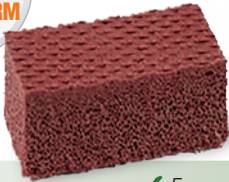


Did you know...?

Dura-Bull from Diansuply is perfect for shapes on lead edge trim breaker knives and as a slot rubber on rotary applications.

OPEN CELL EJECTION RUBBER

Freeman carries the largest selection of open cell rubber in the USA. We carry deep inventories of all durometers, which are available in rolls, sheets, strips, Max Point, wave cut, and cut-n-boxed pieces. All sizes available with or without PSA.



Diansuply T-75

Diansuply T-75 (also known as F-75) is an extra-firm open cell ejector for folding carton and thin substrates. It is proven to run at full speed on Bobst presses. Pair with GN-88 Green Slot rubber.

- ✓ Economical
- ✓ Flat applications
- ✓ High speed folding carton & paperboard



Diansuply B-65

Diansuply B-65 (also known as F-65) is a medium durometer black open cell ejector. It is used most often on clamshell presses, but also offers a variety of benefits when less crush is desired.

- ✓ Economical
- ✓ Flat applications
- ✓ Thicker substrates (esp. corrugated)
- ✓ Lower speed presses



Diansuply 6110

Diansuply 6110 offers a tighter cell structure, preferred by some converters diecutting paperboard. This rubber is produced one sheet at a time versus on a production line, resulting in a more consistent ejection material.

- ✓ Premium
- ✓ Flat applications
- ✓ High speeds
- ✓ Won't dry out quickly
- ✓ Tighter thickness tolerances



Diansuply 6220

Diansuply 6220 (also known as F-50) is similar in durometer to B-65 but has a tighter, more uniform cell structure and is preferred for faster running presses. This rubber is produced one sheet at a time versus on a production line, resulting in a more consistent ejection material.

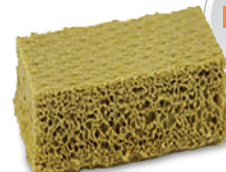
- ✓ Premium
- ✓ Flat applications
- ✓ High speeds
- ✓ Thicker substrates (esp. corrugated)



Diansuply F-70

Diansuply F-70 is a firm open cell ejector used for a variety of substrates and diecutting applications where an extra-firm ejector may not be desired.

- ✓ Economical
- ✓ Flat applications
- ✓ Shorter run applications



Diansuply K-60

Diansuply K-60 is a soft ejector for thicker substrates. It is often used for filler in large open areas on the die, without adding too much tonnage to diecut.

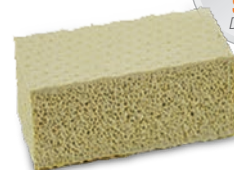
- ✓ Economical
- ✓ Less crush
- ✓ Flat diecutting of thicker materials & corrugated



Diansuply 6118

Diansuply 6118 (also known as F70P) is similar in durometer to F-70, but with a tighter cell structure and slightly softer footprint. This ejector is preferred by many converters. Also works well with plastics.

- ✓ Premium
- ✓ Flat applications
- ✓ Long run applications
- ✓ More spring than Diansuply F-70



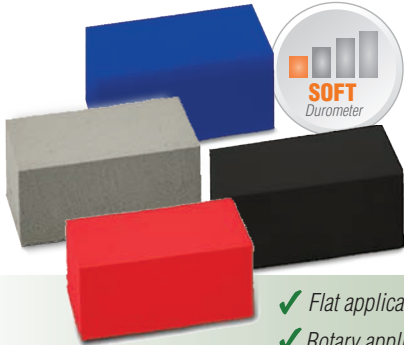
Diansuply 6320

Diansuply 6320 is similar in durometer to K-60, but it has a better cell structure for more uniform ejection on crushable products. It also won't dry out as fast in storage. This rubber is produced one sheet at a time versus on a production line, resulting in a more consistent ejection material.

- ✓ Premium
- ✓ Less crush
- ✓ Flat diecutting of thicker materials & corrugated

CLOSED CELL EJECTION RUBBER

Freeman stocks the largest selection of Closed Cell EPDM Rubber from both US manufacturers. Available in Gray, Red, Blue, Black and Brick in sheets, strips, Max-Point, wave cut, and cut-n-boxed pieces. All sizes available with or without PSA.



Diansuply G-257

Diansuply G-257 offers a soft touch and less crush on corrugated board. The EPDM closed cell offers long life and excellent resilience. Easily distinguish different heights on the die with different color options.

- ✓ Flat applications
- ✓ Rotary applications
- ✓ Primarily for diecutting corrugated board

Freeman P-390

Freeman P-390 is suitable for rotary applications, diecutting foam boards, and corrugated dies or plastic corrugated where "crush" is an issue. This soft, brick red EPDM rubber is most often used for product rubber on rotary dies.

- ✓ Rotary applications
- ✓ Can also be useful for scrap ejecting



Freeman F-257

Freeman F-257 also offers a soft touch and less crush on corrugated board. This EPDM material is preferred by flat diemakers due to the tighter thickness tolerances on 3/8" and 7/16" sizes.

- ✓ Flat applications
- ✓ Rotary applications
- ✓ Primarily for diecutting corrugated board

Freeman P-590

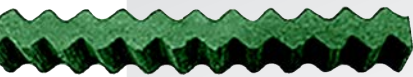
Freeman P-590 is made from waterproof EPDM rubber. This unique 75 durometer closed cell rubber is designed for specialty dies that cannot use open cell or microcell rubbers that absorb water.

- ✓ Flat applications
- ✓ Also functions well as a slot rubber



A Complete Offering of Ejection Rubber

Freeman offers a complete range of durometers, cut shapes, and dimensions of Open Cell, Closed Cell, Microcell, and other specialty ejection rubber. We stock deep inventories on all styles for your convenience.



ZAG



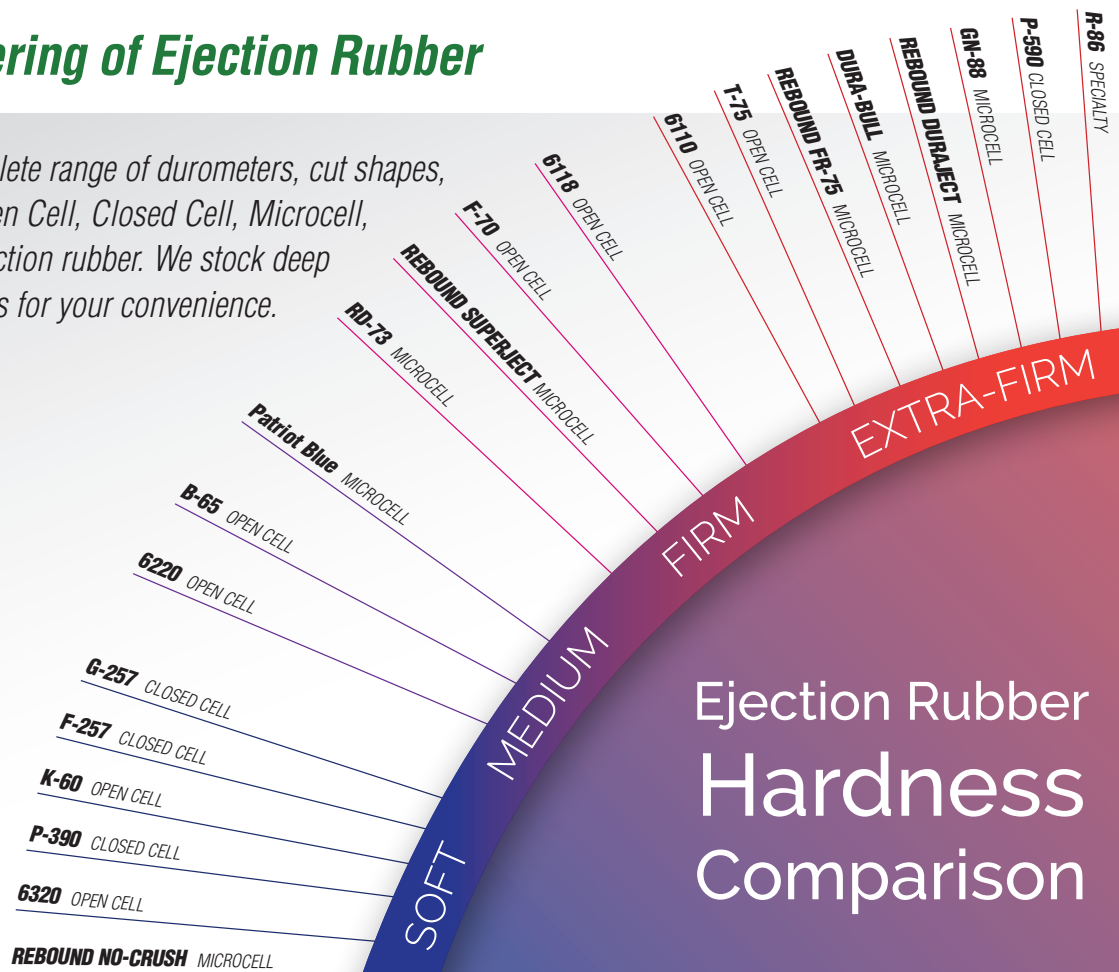
Maxpoint



Side Wave



Strips



Ejection Rubber
Hardness
Comparison

SPECIALTY EJECTION RUBBER



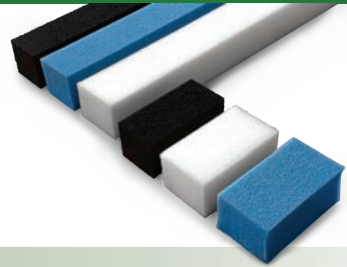
Nick / Profile Rubber

SprintRubba is the most popular selling C-profile. It protects nicks and provides uniform ejection. C-profile clamps the paper board sheet and prevents breaking of nicks. Adheres best with F-Bond Medium Adhesive.

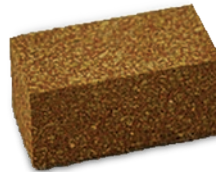
- ✓ 9.5mm Height
- ✓ 5mm or 8mm Width
- ✓ 30 Meters / box
- ✓ 50 Strips / box

Stripping Foams

Stripping foams are most commonly used on stripping fixtures. Available in strips and pieces, without PSA.



- ✓ Economical 2 lb. white foam for short runs
- ✓ Popular 6 lb. black foam for medium runs
- ✓ Slightly firmer 6 lb. blue foam for medium runs



Diansuply Cork

Diansuply's Cork ejection rubber is an extremely firm cork and rubber combination. It is ideal for crushing corrugated or pulling corrugated through the die cutter.

- ✓ Sheets, Strips, or Blocks
- ✓ With or without PSA
- ✓ 30 Meters / box
- ✓ 50 Strips / box



Diansuply R-86

Diansuply R-86 is a high-quality, extra-firm trim breaker rubber offering excellent consistency. R-86 also functions as an excellent slot rubber.

- ✓ Sheets
- ✓ Scalloped
- ✓ Straight Strips
- ✓ With or without PSA
- ✓ Maxpoint Strips



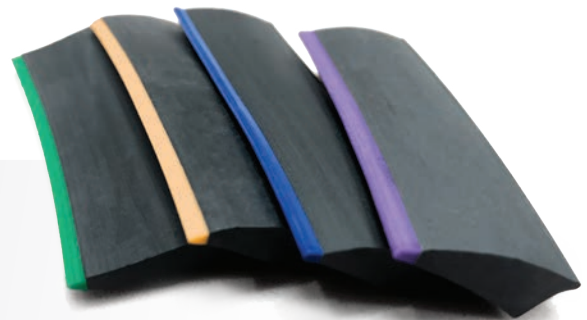
Gum Rubber

Gum Rubber is a proven durable and dense slot rubber designed for use in very narrow areas.

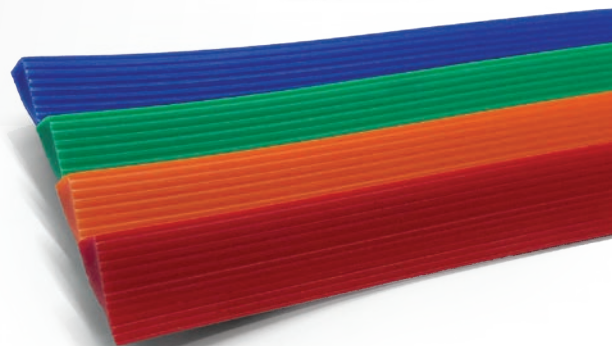
- ✓ Sheets
- ✓ Scalloped
- ✓ Straight Strips
- ✓ No PSA
- ✓ Maxpoint Strips

Freeman Cushion Crease is featured in our Hardware & Accessories section.

Used primarily on rotary tooling, Freeman Cushion Crease mounts on both sides of 90° scores to reduce cracking and improve scoring on corrugated board. The 60-65 Durometer Cushion Crease crushes the corrugated fluting, allowing proper scoring and better folding.



Now available with your logo! Minimums apply.



DIE ADHESIVES



F-Bond Cyanoacrylates

F-Bond is a complete line of high-quality cyanoacrylate adhesives that includes a range of viscosities for any diemaking application as well as accompanying products for usage and cleanup.

F-Bond Thin

Made for general purpose applications and is extremely fast setting.

F-Bond Medium

Rapid setting medium viscosity adhesive with good flexibility.

F-Bond Thick

Rapid setting high viscosity, ideal for gap filling applications.

F-Bond Rotary Adhesive

Freeman F-Bond Rotary was developed in response to rotary diemakers' requests for a fast-setting cyanoacrylate that consistently bonds 100% of the time. The key to F-Bond Rotary is a unique centipoise and formulation. This cyanoacrylate sets very quickly without flashing off prior to a complete bond.



F-Bond Accelerator

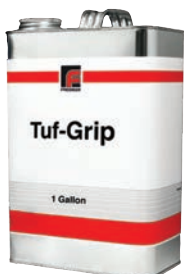
This accelerator neutralizes acidic dieboard and creates a surface that will instantly bond with F-Bond cyanoacrylate. It speeds up production and reduces any chance of failed bonds. Available in an 8 oz. pump spray or 10 oz. aerosol can.

ASI Debonder

This excellent cyanoacrylate adhesive remover is a single component material that will remove cured adhesive from work stations and other things stuck together.

Bottle Accessories

Dosing Tips and **Piercing Caps** made for F-Bond bottles are also available.



Tuf-Grip

Tuf-Grip is a very strong solvent-based contact cement used as an alternative to super glue or cyanoacrylates. Primarily used for rotary ejection rubber. Available in 1-gallon metal containers.

BirchBond

BirchBond is an excellent adhesive developed specifically for bonding $\frac{5}{16}$ " Birch Dieboard when manufacturing dies with the Gerber router system. It is easily and quickly applied with a brush or roller.



BirchBond White – our original formula. Rolls on white and dries clear.

BirchBond Pink (MPG) – designed for quick adhesion of $\frac{5}{16}$ " birch dieboards. Rolls on pink and dries pink.

BirchBond Gold – has a slightly higher viscosity and a higher initial tack. Rolls on gold and dries clear.

Z-Bond

Z-Bond adheres ejection rubber to UV Coated and Melamine laminated dies, yet can be easily removed with no residue. It is made from a specially-formulated, proprietary blend of water-based PSA. It was designed solely for use on steel rule dies with slick coatings.



DieStrip

DieStrip is specially formulated to hold ejection materials securely and strips cleanly when re-rubbing the die. Rubber can easily be pulled off by hand or scraped off with a wood chisel. DieStrip leaves little to no residue on the dieboard.



Wood Glue Applicator Bottles

Non-stick, plastic glue bottles in popular and convenient sizes are available (empty) for die shop use. The screw-on plastic spout, which can be cut to desired opening size, gets the glue into the tight places where you need it.

