

Ultimate Val-Coat® Series

Premium Emboss Roll Coverings for the Tissue Converting Market

Valley Roller's Ultimate Val-Coat® series of Emboss roll coverings have been found superior to competitive roll coverings. This family of products was designed to overcome the deficiencies of traditional Embossing coverings. Ultimate Val-Coat® has been proven to meet the wide range of performance parameters found within the tissue and towel converting market. Based on innovative rubber chemistry, Ultimate Val-Coat® coverings enhance the emboss quality. In addition, Ultimate Val-Coat® covers provide superior dynamic properties, and ultimately improve roll life.

The function of the compliant covering in embossing applications is to provide a surface that is capable of accepting the respective non-complaint image (Engraved Pattern Roll). The objective is transfer the image from the engraved roll to the substrate as it passes through thenip.

Elastomeric coverings for embossing applications must exhibit certain physical properties to function well in the embossing arena. This includes resiliency, abrasion resistance, modulus, and low hysteresis properties. These properties will determine the suitability of the covering in the application and will greatly impact the degree of success in a given environment.

Outstanding Wear Characteristics

- Outstanding Abrasion Resistance
- Excellent Crown Retention
- Longer Roll Life

Unique Dynamic Properties

- Outstanding Hysteresis (Low Heat build-up)
- Exceptionally High Modulus Covering
- Outstanding Resiliency
- Excellent Hardness Stability



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Technical Data

Physical Properties			
Covering Family	Ultimate Val-Coat®	Val-Rite®	Cool Nip®
Hardness (Shore A)	50-80	50-80	45-75
P&J	70-150	60 -200	60-275
Hysteresis	5	3	4
Modulus	5	3	4
Elongation	4	3	5
Tear	5	3	4
Resistance to Denting	4	3	3
Abrasion	5	3	3
Release	3	3	2
Service Temp (°F)	350°F	275°F	250°F
Recommended Thickness	.625" – .875"	.625" – .875"	.625" – .875"

1- Poor 2- Fair 3- Average 4- Above Average 5 - Excellent

Unique Dynamic Properties

Embossing roll applications pose unique challenges to the dynamic properties of any rubber covering. While running at high speeds, rubber covered emboss rolls must conform to the engraved pattern. It is essential that emboss coverings fully recover their shape prior to the next pass in order to provide a surface capable of conforming to the engraving. Ultimate Val-Coat® Emboss roll coverings possess outstanding resiliency with exceptional recovery from nip pressure. Ultimate Val-Coat® coverings will maintain nip settings in embossing roll applications, giving the end user a longer lasting covering. Ultimate Val-Coat® is stable in use and does not degrade like typical coverings. This balance of properties enables you to improve productivity and reduce downtime and maintenance costs.

Performance Proven

At Valley Roller, a Maxcess brand, we've been designing, manufacturing and repairing rubber-covered rolls for a wide range of applications since 1984. Through our integrated approach to customer service and manufacturing, we provide the highest level of service, accuracy and quality control for every order. We'll meet or exceed your expectations every time.

So Many Choices...

A multitude of important parameters must be assessed to select the right covering for your application. The process of choice can be confusing. However, know that you have help on your side. Your Maxcess Technical Sales Representative will walk you through the process of choice so your roll is covered with the right covering the first time. Your representative will ask the right questions, understand your goals, and work with you from concept to installation and beyond to insure that your roll cover is performing the way it should. Call us, challenge us. We are here to help.

Outstanding Wear Characteristics

Ultimate Val-Coat® Emboss roll coverings have been engineered to provide excellent abrasion resistance in a wide range of converting applications. This property relates directly to roll wear associated with contact with the engraved pattern. Many engraved patterns have sharp and intricate elements that can abrade and wear the roll surface. Through the use of advanced rubber chemistry, Ultimate Val-Coat® coverings simply stand up better and longer to these abrasive forces than any alternative covering in use today. This translates into greater roll performance, longer roll life, and increased time between roll re-grind operations. Empirical field performance data indicates that Ultimate Val-Coat® emboss roll coverings last 2X longer than alternative coverings.

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