

EXPRESSEAL™



The fastest way to get the seal you need.

www.expressseal.com

ExpresSeal™ can solve your sealing problems fast...

From hydraulic and pneumatic seals in virtually every profile to fast prototyping and complete application assistance services, ExpresSeal™ is your best source to get the seal you need... fast!

We can deliver custom prototypes for your product development needs, off-the-shelf standard seal profiles, or custom machined seals for emergency replacement.

ExpresSeal is set up to respond quickly to even the most challenging sealing requirements, combining our experience and integrated capabilities to give you distinct advantages.



From prototypes to custom designs, ExpresSeal can solve your sealing problem FAST.

Application & Design Assistance

With a broad range of experience in every industry, ExpresSeal can assist you at every stage of your sealing application, from prototype to production.

Complete Custom Manufacturing Capabilities

Whether you need a one-off emergency replacement seal or a large production run, ExpresSeal has the manufacturing capabilities to respond to your specific requirements.

Custom Molded Shapes and Seals

ExpresSeal has the resources to assist you in custom designing unusual, all-rubber shaped seals specifically for your application, including microminiature shapes for your smaller designs, and rubber-to-metal bonded parts.

We can handle any project that requires molding, with a full range of capabilities that includes liquid injection molding, plastic injection molding, transfer molding, and compression molding.



Experienced, knowledgeable engineers can assist you with custom molded shapes and seals.

Quality Assurance

ExpresSeal offers one of the most stringent quality assurance programs in the industry. We can offer quality assurance that includes both dimensional and material validation, plus full documentation is available.

Research and Development

If you require a truly unique sealing solution, ExpresSeal has the resources to explore and develop new designs, materials and processes.

Machinable Grade Materials:

Polyurethane (Red) (FDA Compliant) HPU® (Hydrolysis Resistant Polyurethane) <ul style="list-style-type: none">+ Excellent wear and extrusion resistance+ Suitable for use in high pressure hydraulic sealing applications+ Hydraulic applications where water based fluids are being used	Hardness: 95 Shore-A	Temperature Range: -4°F to 240°F (-20°C to 115°C)
NBR (Black) (Nitrile Butadiene Rubber) <ul style="list-style-type: none">+ Good abrasion resistance+ Elastic, allowing for ease of installation+ Hydraulic and pneumatic applications	Hardness: 85 Shore-A	Temperature Range: -22°F to 230°F
EPDM (Black) (Ethylene-Propylene-Diene Rubber) <ul style="list-style-type: none">+ Resistance to steam, ozone, and direct sun light+ Flexibility at lower temperatures+ Widely used in outdoor applications, Automotive brake systems, Automobile cooling systems, Water and Steam applications- Poor resistance to mineral oil, gasoline, and hydrocarbon solvents	Hardness: 85 Shore-A	Temperature Range: -49°F to 266°F
Fluorocarbon Rubber (Brown or Black) (Viton®) <ul style="list-style-type: none">+ Resistance to ozone, weathering, and high heat+ Excellent chemical resistance+ This material is typically used in HFD fluids (Phosphate Ester and Chlorinated Hydrocarbon based Fluids)	Hardness: 85 Shore-A	Temperature Range: -4°F to 428°F
Silicone Rubber (Light Blue or Orange) <ul style="list-style-type: none">+ Good chemical resistance+ Excellent temperature range- Poor abrasion and tear resistance; Typically used in static applications	Hardness: 85 Shore-A	Temperature Range: -76°F to 392°F
H-NBR (Green) H-NBR is a Hydrogenated Nitrile Butadiene Rubber compound <ul style="list-style-type: none">+ Strongest compound of all the elastomers+ Excellent abrasion and tear resistance+ Widely used in applications involving water based fluids - especially Water-Glycol fluids+ Good replacement for Viton in applications where the temperature does not exceed its physical properties Key uses: Oil resistant applications, including exposure to such oil additives as detergents, anti-oxidants and anti-wear agents. Exposure to oil soured with metal sludge. Seals for oil well applications. Seals for automotive fuel handling systems.	Hardness: 85A durometer	Temperature Range: -4°F to 302°F
POM (White or Black) (Polyoxymethylene/Polyacetal) (Hard Plastics) <ul style="list-style-type: none">+ Used for sealing components such as back-up rings and special shapes+ Low absorption of water (low swelling) and strong mechanical properties make this material ideal for bearings and guide-rings		Temperature Range: -49°F to 212°F
Virgin Teflon® (White) - PTFE (Polytetrafluoroethylene) PTFE - Teflon is a tough, chemically inert polymer possessing an incredible working temperature range. <ul style="list-style-type: none">+ Excellent temperature range+ Low friction+ Chemically inert to virtually all industrial chemicals, even at elevated temperatures+ Good chemical resistance to such solvents as acetone, MEK, and xylene- Very poor elastic memory- Will cold flow (creep) over time		Temperature Range: -300°F to +450°F
Nickel Teflon® (Grey) - NTFE (Nickel/Moly/Glass Filled Teflon) <ul style="list-style-type: none">+ Same good physical and chemical properties with better creep behavior than virgin PTFE+ Good for anti-extrusion rings, back-up rings, guide rings and in chevron packing sets- Some chemicals may not be compatible with the fillers		Temperature Range: -300°F to +450°F
Bronze Filled Teflon® (Brown) - BTFE (Bronze Filled Teflon) <ul style="list-style-type: none">+ Better wear, creep resistance, and higher thermal conductivity than virgin and glass fiber filled PTFE+ Used in applications which undergo high mechanical loads or high-speed rubbing contacts- Poor chemical resistance in the presence of acids and alkali		Temperature Range: -300°F to +450°F
Carbon Filled Teflon® (Black) - CTFE (Carbon Filled Teflon) <ul style="list-style-type: none">+ Good chemical resistance to corrosive environments+ Exhibits good initial wear and rubbing characteristics, both dry and water applications+ Frequently used in piston seals		Temperature Range: -300°F to +450°F

Special Order Machinable Grade Materials

(Minimums may apply on some materials):

Polyurethane - Self Lubricating (Grey) SL-PU® Hydrolysis Resistant Polyurethane with internal Solid Lubricants. + For applications with sparse system lubrication + Commonly used in hydraulic and pneumatic applications	Hardness: 95 Shore-A	Temperature Range: -4°F to 230°F
Polyurethane - Low-Temp (Dark Blue) LT-PU® High Performance Polyurethane designed to perform in Low Temperatures + This material maintains its performance characteristics in extremely cold climates - Is not hydrolysis resistant	Hardness: 95 Shore-A	Temperature Range: -58°F to 230°F
Polyurethane (Yellow) HPU 55D® Hydrolysis Resistant Polyurethane with a Shore-D hardness of 55 + Ideal for high pressure and heavy duty applications + May be used to replace Teflon seals because of exceptional wear resistance, competitive price, and ease of installation	Hardness: 55 Shore-D	Temperature Range: -4°F to 240°F
EPDM - FDA (Black) (White) + FDA compliant with the same features as regular EPDM	Hardness: 85 Shore-A	Temperature Range: -49°F to 266°F
AFLAS (Black) AFLAS® (Fluoro Rubber) + Commonly used in (but not limited to) Refinery, Off Shore and Down Hole Applications	Hardness: 85 Shore-A	Temperature Range: -23°F to 392°F
UHMW-PE (White) Max. + Outstanding abrasion resistance, superior impact resistance, non-sticking and self-lubricating properties + Excellent mechanical properties, even in cryogenic conditions + Chemical, corrosion, and wear-resistant		Temperature Range: +180°F
Glass Filled Teflon (White) – GTFE (Glass Fiber Filled Teflon) + Good chemical and electrical properties + Greatly improved mechanical properties (compressive and wear resistance) over unfilled PTFE + Resists acids and oxidation - Not recommended for alkali environments		Temperature Range: -300°F to +450°F
Virgin Teflon® – FDA (White) - PTFE + FDA compliant with the same features as regular Virgin Teflon		Temperature Range: -300°F to +450°F
Hytrel® Hytrel® Thermoplastic Polyester Elastomers + Provides the flexibility of rubbers and the strength of plastics + Ideal for parts requiring excellent flex fatigue and broad use temperature + Resists tearing, flex-cut growth, creep and abrasion + Outstanding toughness while resisting hydrocarbons and many other fluids		

EXPRES SEAL™ – The fastest way to get the seal you need













































































































































(Machinable Profiles 1/2" I.D. to 20" O.D.)

Materials

Polyurethane • Nitrile (Buna-N) • H-NBR • Viton® • EPDM • Silicone
 Teflon® • Filled Teflon® • Engineered Plastics • Aluminum

DS106



Symmetrical ID / OD Seals	 DS106  DS107  DS108  DS110/112  DS121  DK124  DS126/128  DS130  DS139  DK139  O RING
Rod / Shaft Seals	 DS101  DS102  DS102R  DS103  DS104  DS104R  DS105  DS109  DS116  DS117  DS199  DS205  DS117R  DS119  DS120  DS124  DS125  DS129  DS131  DS138  DS141  DS142  DS216  DS238
Rotary Seals	 DR101  DR102  DR103  DR104  DR105  DR106  DR107  DR108  DR110  DR111  DR112  DR113  DR115  DR115A  DR115B  DR116  DR116A  DR116B  DR118  DR119  DR117  DR201  DR202  DR203  DR204  DR205  DR206  DR207
Piston / Bore Seals	 DK101  DK102  DK102R  DK103  DK104  DK104R  DK105  DK108  DK109  DK109D  DK109H  DK109N  DK116  DK117  DK119  DK120  DK122  DK123  DK123D  DK123H  DK123N  DK125  DK127  DK138  DK140  DK141  DK142  DK143  DK144  DK145  DK199  DK205  DK216  DK222  DK238
Rod / Shaft Wipers	 DA101  DA102  DA103  DA104PN  DA105PN  DA106PN  DA107  DA108  DA109  DA111  DA112  DA113  DA114  DA115  DA116  DA117  DA118  DA119  DA211  DA212  DA213
Wear Bands Back-Up Rings	 DF101  DF102  DF103  DF104  DF105  DF106  DF107  DF108  DST108  DST109  DST110  DST111
Gaskets Bushings	 DST112  DST113  DFL103  DFL104  DFL108  DFL109A  DFL109B  DFL109C  DFL110

Dimensional limitations may apply to some profiles.

If you don't see what you need, contact us for custom profiles. 1-800-446-4773

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EXPRESSEALTM

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