

RUBBER LINING APPLICATION MANUAL

Section 5: Polycorp Product Guide



The product lines for Polycorp Protective Linings are comprised of two distinct groups:

- The **Polycorp T-series** linings are a value based range of products designed as a cost effective alternative for applications where cosmetic requirements are less stringent.
- The **Polycorp Polymeric** Linings are designed to meet the most exacting standards for quality and consistency. These are the material choices for demanding applications like rail, truck and tank linings.

The following tables are meant as a general guide only. Please contact your Polycorp representative for specific recommendations.

***Cure Methods:** *A - Autoclave* *I - Internal Steam* *E - Exhaust (Atmospheric) Steam*
CC - Chemical Cure (Ambient or Exhaust steam assist)

**** FDA Compliant:** *All ingredients formulated the rubber lining conform to the requirements of FDA Title 21, CFR 177.2600 for food contact*

***** Chemical cure:** *Use C-600 activator for FDA compliant rubber lining*

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
1000	Tan/ yellow/ tan	40 - 60 A	Triflex™ Natural rubber	A - I - E	Yes	Combined chemical and abrasion resistance
1001	Black	45 - 65 A	Triflex™ Natural rubber	CC - E	Yes***	Combined chemical and abrasion resistance
1003	Black	80 - 100 A (35 - 55 D)	Semi-hard natural rubber with natural tie gum or sticky back	A - I - E	Yes	Excellent chemical and temperature resistance. Superior in water treatment equipment.
1004	Black	50 - 70 D	Superflexite A Semi-hard natural rubber with natural tie gum	A - I - E		Excellent chemical resistance at elevated temperatures
1006	Black	60 - 80 D	Acidseal E Semi-hard natural rubber with natural tie gum	A - I - E	Yes	General purpose lining for severe corrosion service at elevated temperature
1008	Black	55 - 65 A	Triflex™ Soft -hard- soft	A - I - E	Yes	Excellent abrasion and chemical resistance with low water absorption. Excellent for FGD scrubber applications

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
1015	Tan/ grey/ black	40 - 60 A	Triflex™ Semi-hard - hard - soft	A - I - E		Excellent chemical and permeation resistance
1017	Black	80 - 100 A (35 - 55 D)	Semi-hard natural rubber without tie gum	A - I - E		General purpose lining Excellent chemical and temperature resistance. Superior for water treatment
1019HT	Tan/ black/ tan	40 - 60 A	Triflex™ Soft -hard- soft High temperature	A - I - E		Excellent chemical resistance at high temperature service (up to 220°F/104°C). Developed for phosphoric acid service
1020HT	Tan/ yellow/ tan	40 - 60 A	Triflex™ Soft -hard- soft High temperature	A - I - E		Excellent chemical resistance at high temperature service (up to 220°F/104°C). Developed for phosphoric acid service
1024	Black	45 - 55 A	Pure chlorobutyl rubber with natural tie gum	A		Excellent chemical resistance at elevated temperature. Superior lining to handle strong oxidizing solution
1032	Black/ tan	45 - 55 A	Soft natural rubber with natural tie gum	A - I - E	Yes	Excellent chemical, abrasion and tear resistance
1035	Black/ tan	45 - 65 D	Superflexite B Field curing Semi-hard natural rubber with soft natural tie gum	A - I - E		Excellent chemical resistance at elevated temperatures
1036	Black	75 - 95 A (25 - 45 D)	Semi-hard Ebonite with soft natural rubber tie gum	A - I - E	Yes	Excellent chemical resistance at elevated temperatures
1038	Black/ white	75 - 95 A (25 - 45 D)	Semi-hard chemical cure natural rubber with natural rubber tie gum	CC - E	Yes***	Repair stock for black semi-hard lining. Good chemical resistance at elevated temperatures
1040	White/ tan	75 -95 A (25 - 45 D)	Semi-hard natural rubber with natural rubber tie gum	A - I - E	Yes	Excellent chemical and temperature resistance. Superior performance in water treatment equipment
1042	White	75 - 95 A (25 - 45 D)	Semi-hard Ebonite with natural tie gum	A - I - E	Yes	Excellent chemical Resistance at elevated temperatures

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
1048	Black/ tan	75 - 95 A (25 - 45 D)	Semi-hard natural rubber with or without tie gum	A - I - E	Yes	Excellent chemical resistance and temperature resistance. Superior performance in water treatment equipment
1051	Black/ tan	50 - 60 A	Chlorobutyl with natural rubber tie gum	A - I - E		Excellent chemical resistance at elevated temperatures. For handling strong sodium hypochlorite solutions up to 15% chlorine. Also suitable for 70% hydrofluoric acid service up to 125°F (52°C).
1053	Black/ tan	90 - 100 A (45 - 65 D)	Graphitic semi-hard natural rubber with soft natural tie gum	A - I - E		Outstanding resistance to wet chlorine, chlorinated brine and chlorine water solutions.
1054	White/ tan	35 - 45 A	Blended chlorobutyl and natural rubber with natural tie gum or sticky back	A - I - E	Yes	General chemical resistance at temperatures up to 200°F (93°C).
1055	Black/ tan	50 - 60 A	Blended chlorobutyl and natural rubber with natural tie gum	A - I - E	Yes	General chemical resistance at elevated temperatures. Excellent in super phosphoric acid.
1056HT	Black/ tan	55 - 65 A	chlorobutyl rubber with tan natural rubber tie gum	A - I - E	Yes	General chemical resistance in temperatures up to 220°F (104°C)
1058	White/ tan	30 - 50 A	Chemical cure chlorobutyl rubber	CC - E	Yes***	General purpose repair stock for chlorobutyl linings. Good chemical and heat resistance
1060	Black/ tan	55 - 65 A	Armorite Soft natural rubber with or without soft natural tie gum	A - I - E	Yes	Extremely high abrasion and tear resistance
1061	Black	50 - 60 A	Soft natural rubber without tie gum	A - I - E	Yes	Reinforced to provide excellent chemical, abrasion and tear resistance
1064	White	55 - 65 A	Soft natural rubber	A - I - E	Yes	Used in food services where a non-staining lining is required

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
1066	White	55 - 65 A	Triflex™	A - I - E	Yes	Excellent abrasion and chemical resistance with low water absorption
1069	Black	55 - 65 A	Soft natural rubber	A - I - E	Yes	Excellent chemical, abrasion and tear resistance. Excellent machining and grinding properties
1077HT	Black/ tan/ black	55 - 75 A	Triflex™ Chlorobutyl faced Soft -hard- soft	A - I - E		Excellent chemical and abrasion with low water absorption. Excellent for FGD Scrubber module applications, phosphoric acid and deformer industry
1097	Tan	55 - 65 A	Natural rubber	A - I - E	Yes	Excellent chemical, abrasion and tear resistance. Excellent machining and grinding characteristics.
1099	Tan	30 - 40 A	Soft natural rubber (pure gum rubber)	A - I - E	Yes	Stained compound to eliminate impurities. Excellent chemical, abrasion and tear resistance
2000	Tan	30 - 40 A	Acidseal MA Soft Natural rubber (pure gum rubber)	A - I - E	Yes	Strained compound to eliminate impurities. Excellent chemical, abrasion and tear resistance
2001	Black	35 - 45 A	Acidseal MA Soft natural rubber (pure gum rubber)	A - I - E	Yes	Strained compound to eliminate impurities. Excellent chemical, abrasion and tear resistance
2002	Black	38 - 48 A	Soft natural rubber	A - I - E		Excellent chemical, abrasion and tear resistance
2004	White	30 - 40 A	Soft natural rubber (pure gum rubber)	A - I - E	Yes	Food grade service where a non-staining lining is required
2006	Black	45 - 55 A	Pure chlorobutyl rubber	A - I - E		Excellent chemical resistance at elevated temperatures. Superior lining to handle strong sodium hypochlorite solutions (up to 15% chlorine. Also suitable for 70% hydrofluoric acid.

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
2007	Black	45 - 55 A	Pure chlorobutyl rubber	A - I - E		Used for stripping butt joints on chlorobutyl linings 1051 and 2006
2010	Black	55 - 65 A	Neoprene rubber	A - I - E		General purpose with good abrasion, weathering, flame retarder and corrosion resistance. Good machining properties
2011	Black	55 - 65 A	Neoprene rubber	A - I - E		General purpose with good abrasion, weathering, flame retarder and corrosion resistance. Good machining properties
2012	Black	55 - 65 A	Neoprene rubber	A - I - E		General purpose with good abrasion, weathering, flame retarder and corrosion resistance. Good machining properties
2013	Black	55 - 65 A	Chemical cure Neoprene rubber	CC - E		Chemical cure repair stock for Neoprene lining
2017	Black	45 - 65 D	Superflexite B Semi-hard natural rubber	A - I - E		General purpose field curing lining with excellent chemical resistance at elevated temperatures
2019	Black	40 - 60 A	Chemical cure soft natural rubber	CC - E	Yes***	General purpose chemical cure repair stock. Excellent corrosion and abrasion resistance
2020	Black	42 - 52 A	Soft natural rubber	A - I - E		Excellent corrosion resistance with good physical properties and abrasion resistance
2027	Red	30 - 40 A	Soft natural rubber	A - I - E		Superior abrasion resistance for mining and pipe applications.
2033	Black	45 - 55 A	Soft natural rubber	A - I - E		Ozone, oxygen and weather with excellent abrasion resistance
2033P	Black	55 - 65 A	Soft natural rubber	A - I - E		Ozone, oxygen and weather with excellent abrasion resistance
2034	White	45 - 55 A	Neoprene rubber	A - I - E	Yes	General purpose with excellent abrasion, oil and corrosion resistance

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
2040	Black	50 - 70 A	Chemical cure chlorobutyl with natural rubber tie gum	CC - E	Yes***	General purpose chemical cure repair stock for chlorobutyl linings.
2041	White	30 - 50 A	Chemical cure soft natural rubber	CC - E	Yes***	Chemical cure repair stock for white natural rubber lining. Excellent non-staining combined with abrasion and corrosion resistance.
2042	Tan	35 - 55 A	Chemical cure soft natural rubber	CC - E	Yes***	Chemical cure repair stock for white natural rubber linings. Good abrasion and corrosion resistance.
2048	Black	55 - 65 A	Nitrile rubber	A - I - E		General purpose where petroleum aliphatic solvents and some oils are present.
2055	Black	50 - 60 A	Soft blended chlorobutyl rubber	A - I - E		General purpose chemical resistance at elevated temperature.
2056	Black	50 - 60 A	High temperature chlorobutyl rubber	A - I - E		General purpose chemical resistance at temperature up to 220°F (104°C).
2098	Tan	40 - 60 A	Chemical cure natural rubber	CC - E	Yes***	General purpose repair stock for tan natural rubber linings.
3014	Black	75 - 95 A (25 - 45 D)	Chemical cure semi-hard natural rubber	CC - E	Yes***	Chemical cure repair stock for semi-hard natural rubber linings. Good chemical resistance at elevated temperature.
3015	White/ black/ tan	55 - 65 A	Triflex™	A - I - E	Yes	General purpose with excellent chemical and temperature resistance. Superior performance in water treatment equipment
3016	White/ black/ tan	75 - 95 A (25 - 45 D)	Triflex™ Semi-hard natural rubber face and natural tie gum	A - I - E	Yes	General purpose with excellent chemical and temperature resistance. Superior performance in water treatment equipment
3049	Black	50 - 60 A	MOR Natural rubber blend	A - I - E		Moderate oil resistance (MOR) for general abrasion application

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
4631	Black	50 - 60 A	Natural rubber and chlorobutyl blend	A - I	Yes	For vapor pad in ceiling of HCl tank cars. Reduces “chunking” tendency
5621	Black	50 - 60 A	Lead cure Neoprene rubber	A - I - E		Good abrasion, weathering, flame and corrosion resistance as well as machining properties.
5821	Black	50 - 60 A	Lead cure Neoprene rubber	A - I		Superior abrasion, weathering, flame and corrosion resistance properties as well as machining properties.
6511	Black	45 - 55 A	Bromobutyl rubber	A - I		Superior temperature resistance in phosphoric acids and caustic solutions up to 260°F (127°C)
6512	Black	45 - 55 A	Bromobutyl with natural rubber tie gum	A - I - E		Superior temperature resistance in phosphoric acids and caustic solutions up to 260°F (127°C)
9159	Black	50 - 60 A	SBR rubber	A - I - E		Good physical properties for sliding abrasion application
9160	Black	55 - 65 A	SBR rubber	A - I - E		Good physical properties for sliding abrasion application
9169	Black	55 - 65 A	SBR rubber	A - I - E		Good physical properties for sliding abrasion application
17001	Black	50 - 60 A	Blended chlorobutyl with or without natural tie gum	A - I - E		General purpose chemical resistance at elevated temperatures
55159	Black	50 - 60 A	SBR rubber	A - I - E		Good physical properties for sliding abrasion application
55160	Black	55 - 65	SBR rubber	A - I - E		Good physical properties for sliding abrasion application
55160	Black	55 - 65 A	SBR rubber	A - I - E		Good physical properties for sliding abrasion application
60714	Black	60 - 70 A	Natural rubber	A		Excellent abrasion resistance along with ozone and weather resistance

Product	Color	Hardness	Material	Cure*	FDA** Compliant	Application
64025	Tan	35 - 45 A	Natural rubber	A - I - E		Excellent chemical, abrasion and wear resistance.
T1000	Tan	35 - 45 A	Epseal Soft natural rubber	A - I - E		Excellent chemical, abrasion and wear resistance. Operating temperature -40°F to 150°F (-40°C to 66°C)
T1001	Black	35 - 45 A	Epseal Soft natural rubber	A - I - E		Excellent chemical and abrasion resistance. Specially formulated for steel mill pickle lines application
T1003	Black	50 - 60 A	Epseal Soft natural rubber	A - I - E		Excellent abrasion resistance. Normally used for overlays
T1004S	Black	55 - 65 A	Epseal Soft natural rubber	A - I - E		Excellent abrasion resistance along with oxygen and weather resistance
T1200	Red	35 - 45 A	Soft natural rubber	A - I - E		Industry leading abrasion resistance – both impact and sliding
T1300	Red	35 - 45 A	Soft natural rubber	A - I - E		Excellent abrasion and tear resistance
T5009	Black	55 - 65 A	Epseal Soft Neoprene rubber	A - I - E		Excellent aging and weathering resistance.
T5109	Black	55 - 65 A	Epseal Soft Neoprene rubber with natural tie gum	A - I - E		Good abrasion, weathering, flame retarded and corrosion resistance.
T6005	Black	50 - 60 A	Epseal Blended chlorobutyl rubber	A - I - E		Excellent chemical resistance at elevated temperatures. Good resistance to some oxidizing chemicals
T6105	Black	50 - 60 A	Epseal Blended chlorobutyl with natural tie gum	A - I - E		Excellent chemical resistance at elevated temperatures. Good resistance to some oxidizing chemicals
T8000	Tan	35 - 45 A	Natural rubber blend	A - I - E		Abrasion resistance application

Non-Standard Products:

The following may be available on a non-standard basis. Please contact Polycorp representative for price, availability and technical Data.

Product	Color	Hardness	Material
1002	Black/grey/tan	45 - 65 D	Triflex™ K Hard-hard-soft combination
1005	Black/tan	50 -60 D	“Saniprene” Hard natural rubber
1010	Black/grey/tan	55 - 65 A	Triflex™ Soft-hard-soft combination
1011	Brown/black	50 - 70 D	Semi-hard natural rubber
1012	Black/tan	45 - 65 D	Graphite loaded flexible Ebonite Lining
1012S	Black/black/tan	45 - 65 D	Triflex™ Graphite loaded flexible Ebonite
1013	Tan/black/tan	45 - 65 A	Triflex™ Soft-hard-soft combination, FDA compliant
1014	White/tan/black	45 -55 A	Triflex™ White chlorobutyl faced
1015	Black/grey/tan	40 - 50 D	Triflex™ Semi-hard-hard-soft combination
1021	Tan or black	30 - 40 A	Soft natural rubber
1037	Brown/white	75 - 95 A	Chemical cure semi-hard natural rubber
1039	Black/tan	55 - 65 A	Acidseal EP with natural rubber tie gum
1041	Grey/tan	60 -80 D	Graphite reinforced natural rubber
1045	Black/tan	45 - 65 D	Graphite loaded flexible Ebonite Lining
1049	Black	50 - 70 D	“Saniprene” Hard natural rubber without tie gum
1050	Black/tan	55 -65 A	Blended chlorobutyl with soft natural rubber tie gum
1057	Black	50 -60 A	Butyl rubber lining
1063	Black/tan	55 - 65 A	Soft natural rubber with natural tie gum
1068	White	55 - 75 A	Chemical cure
1069	Black/black	55 - 65 A	Soft natural rubber with sticky back tie gum
1070	Black	60 - 80 A	Butyl rubber lining
2003	Black	55 - 65 A	“Armorite Plain” Soft natural rubber
2012S	Black/black	55 - 65 A	Neoprene with soft natural tie gum
2013	Black	50 - 70 A	Chemical cure Neoprene rubber
2016	Grey	60 - 80 D	Graphite reinforced natural rubber
2022	Black	45 - 55 A	Soft natural rubber lining, high heat resistance.

Product	Color	Hardness	Material
2024	Black/tan	53 - 73 D	Hard natural rubber and chlorobutyl blend
2028	Black	49 - 59 A	Soft natural rubber, excellent abrasion and tear resistance
2033S	Black	50 - 60 A	Soft natural rubber, excellent ozone weathering and abrasion resistance
2034	White	45 - 55 A	Neoprene, FDA compliant
2040S	Black/white	55 -75 A	Chlorobutyl rubber with Neoprene tie gum
2040X	Black	50 -70 A	Chlorobutyl rubber with soft natural tie gum
2050	Black	55 - 65 A	Soft blended chlorobutyl rubber
2060	Black/tan	50 - 70 A	Triflex™ Graphite center layer with soft natural rubber face and tie gum
3011	Black/grey/black	50 - 60 A	Chlorobutyl face stock with semi-hard graphite center layer. Designed for wet or dry chorine gas and chlorine brine service
3017	White/white	25 - 45 D	Semi-hard natural rubber face and soft natural tie gum. Chemical cure.
3025	White/tan	25 - 45 D	Semi-hard natural rubber face and soft natural tie gum. Chemical cure.