**LUCPREEN** ("Adiprene") is a classical polyurethane system, which has established itself as a universally applicable component in many areas of industry.

**LUCPREEN** is produced in hardnesses ranging from 80 Shore A to 75 Shore D, and has very good mechanical properties and very good resistance towards hydrolytic media and mineral oils and greases. In addition, **LUCPREEN** provides high dynamic load-bearing capacity, low abrasion and high tensile and tear strength. **LUCPREEN** materials are easy to machine (turning, drilling, milling, grinding) and can be applied as a 2-layer system, with both layers providing different hardness.

Just like many other polyurethane systems of LUC, **LUCPREEN** shows very little crack formation when subjected to bending and other dynamic loads, even in multiple cyclic modes. In addition, the material remains flexible at temperatures as low as -40°C and also maintains its characteristics at temperatures of up to 100°C, withstanding great variations in temperature without problems.

As a result of the excellent properties, in a lot of applications **LUCPREEN** replaced conventional rubber products. It is used for coating rolls, wheels and slitter rings and moulded parts. **LUCPREEN** is produced as a material for sheets, shells and rods and, additionally, further machined into seals, insulating or wear protection products.

**Modifying the formulations can further improve certain properties:**

- **LUCPREEN-HT** in 80 – 95 Shore A enhanced temperature stability up to 120°C
- **LUCPREEN-DT** in 95 Shore A – 75 Shore D enhanced dynamic load-bearing capacity
- **LUCPREEN CR** in 80 – 95 Shore A enhanced permanent roughness
- **LUCPREEN GV** in 80 – 95 Shore A fibre-glass reinforced
- **LUCPREEN NK** in 80 Shore A – 75 Shore D anti-adhesive (non-sticking)

**Products are supplied to a number of different industries, for example:**

- **Steel and aluminium industry:**
  Driver rolls, S-rolls, steering rolls, squeeze rolls, supporting and transport rolls, slitter rings
- **Paper and textile industry:**
  Reel spools, press rolls, calendar rolls, guiding rolls
- **Timber industry:**
  Supporting rolls, band saw wheels, drive wheels
- **Machine construction:**
  Moulded parts used as wear protection
- **Concrete and bricks industry:**
  Moulded parts, wear parts
- **Offshore:**
  Moulded parts, rolls

You will be able to find more information on our website at [www.lucgroup.com](http://www.lucgroup.com)