

Finn-Valve Oy, Top level expertise in polyurethane products

POLYURETHANE ELASTOMERS

Urethane elastomers are rubber-like, elastic plastics. The combination of their physical and chemical characteristics is exceptional. Polyurethane is often abbreviated as PUR. Elastomers are macromolecular compounds that quickly resume their original size and form, or near it, after transformation caused by weak tension once the force is relieved. Based on the raw material used, they are divided into polyester and polyether based urethane elastomers. PUR is manufactured by mixing isocyanate and polyol, in addition to which also diamines and glycols are used. We use NDI isocyanate, which is used as a basis for Vulkollan types. Also MDI and TDI grades are available. We manufacture these types in various degrees of hardness.

Uses

PUR is used when flexibility, durability, and shock absorption is required from the material. Vulkollan (NDI) polyurethane elastomers are used when flexibility, durability, and load-bearing capacity are needed in machine parts that are subjected to a heavy load. MDI is typically used when durability is the main requirement, such as in lifting equipment, sieves and strainers, wipers, doctor blades, and transport and production equipment. PUR has excellent shock absorption qualities.

Benefits of PUR

- high tensile strength and elongation at break
- maintains flexibility in low temperatures
- excellent durability
- shock absorbent
- moulding technique facilitates the manufacture of large and complex objects
- is resistant to a large number of solvents

WE OFFER THE PERFECT RAW-MATERIAL FOR ALL OF YOUR PROJECTS.

Their various unique characteristics have gained polyurethane elastomers a position in uses which place a heavy demand on the material.

Established in 1972, Finn-Valve is a family company based in Joutseno. The company started PUR production with a range of wheels and rollers. Quite soon, production was extended to include spare parts for the timber and paper industries and various parts and coatings for the automobile industry. Currently, we are the leading Finnish manufacturer of polyurethane elastomer products and our clientele includes large companies in various fields of industry. In 2003, Metso Paper rewarded us with the title of the Subcontractor of the Year. Our quality assurance system was certified in 2000. Our operations are based on comprehensive cooperation with our clients. Thorough knowledge of the materials, product development and research, and extensive experience guarantee the high quality of our products, which is used to provide solutions to the challenges faced by our client companies.

Finn-Valve Oy
Varastokatu 10
FIN-54101 JOUTSENO

Tel. +358 (0)207 436 900
Fax +358 (0)207 436 929

E-mail: postmaster@finn-valve.com
www.finn-valve.com