

# What is PIB?



PIBs come in three distinctive product series: Low, Medium, and High [Molecular Weight](#) PIBs.

Low Molecular Weight [Conventional](#) and [High Reactive](#) PIBs are clear liquid polymers, acting as viscosity modifiers or plasticizers in a wide range of [applications](#) including lubricants, adhesives & sealants, rubber & plastics, cosmetic formulations. Their key properties are molecular weight (ranging from 280 up to 6.000) and in parallel the kinematic viscosity (from 2 up to 40.000 cSt at 100°C).

[Medium and High Molecular Weight](#) PIBs are semi-solid to solid polymers, used as an additive or a major component in many formulations including lubricants, adhesives & sealants, chewing gum, construction materials, electrical components. Their key property is again the molecular weight, ranging from 30.000 up to 3.000.000, sometimes expressed in the Staudinger Index, ranging from 20 up to 600 cm<sup>3</sup>/g.

The production process of the three PIB families is illustrated in [How PIBs are processed](#) flow diagram.

[Read more about the PIB production process](#)