

Application purpose and characteristics

PE-LD is used for flat gaskets for various chemical, pharmaceutical, and foodstuff applications. Other applications include films for packaging, shrink film, carrier bags, agricultural films, water vapour barriers for composite films, etc.

PE-LD is soft and particularly flexible. It is resistant to low temperatures of up to -50 °C and high temperatures of max. +60 °C.

Material name, short description	PE-LD
Material name, based on technical standards	Polyethylene low density
Density	.92 g/cm ³
Color	natural (opal)
Compound code	PE-LD 00.029-00

Mechanical properties

Yield stress	10 N/mm ² ISO 527-1
Elongation at rupture	≥ 50 % ISO 527-1
Elongation at yield	12 % ISO 527-1
Flexural modulus of elasticity	200 N/mm ² ISO 527-1
Hardness test value	45 Shore D
Notch impact strength	85.00 mJ/mm ² ISO 179

Thermal attributes

Min. operating temperature	-50 °C
Max. operating temperature long term	60 °C
Max. operating temperature short term	90 °C
Crystalline melting point	110 °C
Thermal conductivity	0.35 W/(m·K) DIN 52612

Electrical attributes

Dielectric strength 1	45 kV/mm DIN IEC 60243-1
Surface resistivity	10 ¹⁴ Ω VDE 0303

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.