

Technical data sheet

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Kunststofftechnik
Jäger GmbH

Gasket for adapters and closures

General Information

We offer a range of gasket materials for our closures and adapters to meet the different requirements for resistance, purity and mechanical properties.

PE-LD gaskets

The PE gasket made from PE-LD is a universal gasket material with very good chemical resistance. Since the material PE belongs to the same material family as almost all packagings, their properties are very similar.

Technical Data

	Standard	Unit	Reference value
Density (23°C)	ISO 1183	g/cm ³	0,922
MFI (190°C / 2,16 kg)	ISO 1183	g/10 min	1,4
Melting point	DIN 51451	°C	97
Tensile modulus	ISO 527	MPa	50
Elongation at break	ISO 527	%	14
Brinell hardness	ISO 2039-1	MPa	8
Shore A hardness	ISO	868	90

Chemical Resistance:

Resistant to all chemicals according to the QuickConnect System chemical coding for the service life of the packagings – discoloration may occur with sulfuric acid.

Note:

The sealing material is relatively hard, which places higher demands on the quality of the sealing surface on the container. If there is a burr or misalignment, this can lead to sealing issues.

POE Typ 1 gaskets

Since PE gaskets exhibit only limited elasticity, among other things due to their high hardness, an alternative was needed for applications requiring a more flexible sealing performance. POE Type 1 was qualified for this purpose and has been successfully in use for over 20 years.

Technical Data

	Standard	Unit	Reference value
Density (23°C)	ASTM D792	g/cm ³	0,880
MFI (190°C / 2,16 kg)	ISO 1183	g/10 min	18
Melting point	DIN 51451	°C	76
Elongation at break	ASTM D638	%	1000
Shore A hardness	ISO	868	81

Chemical Resistance:

Resistant to all chemicals except nitric acid and mixtures thereof according to the QuickConnect System chemical coding for the service life of the containers – discoloration may occur with sulfuric acid.

Note:

The gasket material is relatively soft, which ensures very good sealing performance even on imperfect surfaces (e.g., burrs or misalignment). However, the low melting temperature can cause the material to flow at high ambient temperatures (around 70 °C – e.g., during container transport or storage in direct sunlight). To our knowledge, this has not resulted in any leaks so far, but the risk exists.

POE Typ 2 gaskets

POE Type 2 was sought and found to be significantly more resistant to discoloration caused by sulfuric acid. Competitors offer a similar seal, the suitability of which we could not confirm in long-term tests.

Technical Data

	Standard	Unit	Reference value
Density (23°C)	ASTM D792	g/cm ³	0,90
MFI (190°C / 2,16 kg)	ISO 1183	g/10 min	3,0
Melting point	DIN 51451	°C	96
Elongation at break	ASTM D638	%	740
Shore A hardness	ISO	868	90

Chemical Resistance:

We recommend the use of this material for sulfuric acid! Tests have shown that this gasket is also resistant to nitric acid, but we have no personal experience with this application or with other chemicals. Suitable sealing materials are available for the listed chemicals.

Availability

Adapter / closures	Notes	PE	POE Typ 1	POE Typ 2
¾"-closure closed / vented	„S“ / „V“-closure for QuickConnect2 dip tubes	+	⊘	⊘
42er closure closed / vented	„T“ / „W“-closure for QuickConnect2	+	⊘	+
S62er bung closure closed / vented	For Rikutec packaging or Mauser	+	+	+
Adapter S56x4	QuickConnect2	+	⊘	+
Adapter 2"	QuickConnect2	+	+	+
Adapter S62x5	QuickConnect2 QuickConnect2 HighFlow QuickConnect3	+	+	+
Adapter S64x5	QuickConnect2 QuickConnect2 HighFlow QuickConnect3	+	+	+
Adapter S70x6	QuickConnect2 QuickConnect2 HighFlow QuickConnect3	+	+	+

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