

# EPDM diet

Ethylene-propylene-diene-rubber

Standard colour: white

- Food-compliant EPDM; approval acc. FDA, recommended for approval acc. EU1935/2004
- EPDM peroxide cured, resistant against brake fluids on Glycol-base
- Resistant to HFC, cold water, hot water and steam, diluted acids and bases
- Applicable for Static seals, Rod and Piston Seals, Wiper seals and Rotary seals

Properties	Value	Unit	DIN Standard
<b>Hardness</b>	87 ± 5	Shore A	DIN 53505
<b>Density</b>	1,162	g/cm <sup>3</sup>	DIN EN ISO 1183-1
<b>Compression set 23°C/72h</b>	28,9	%	DIN ISO 815-1
<b>Compression set 70°C/24h</b>	31,6	%	DIN ISO 815-1
<b>Compression set 100°C/24h</b>	27,8	%	DIN ISO 815-1
<b>Elongation at break</b>	246	%	DIN 53504
<b>Tensile strength</b>	8,4	MPa	DIN 53504
<b>100% modulus</b>	4,7	MPa	DIN 53504
<b>Rebound resilience</b>	46	%	DIN 53512
<b>Abrasion</b>	108	mm <sup>3</sup>	DIN 53516
<b>Tear strength</b>	3,6	N/mm	DIN 53515
<b>min. service temperature short</b>	- 40	°C	
<b>max. service temperature constant</b>	+135	°C	
<b>max. temperature hot air &amp; steam</b>	+130	°C	
<b>max. temperature hot air &amp; steam short</b>	+170	°C	

#### Confirmation according FDA

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that all single components used for our compound named «**EPDM diet**» are listed on Code of Federal Regulation of U.S. Food and Drug Administration (FDA), Rockville MD. They are mentioned under following subchapters: **21CFR 177.2600**

#### Confirmation according EU1935/2004

The confirmation according FDA mentioned above provides an approval according EU1935/2004. Due to unavoidable technical factors or due to the form of delivery of the elastomeric pre-materials traces of non-specified impurities could be included. A compulsory test should be applied to the final product.