

Cellular rubber material data sheet

ZK EPDM 60 black



Product description:

Closed and fine-celled cellular rubber, colour black. Different grades of hardness open up different application fields with different coefficients of friction.

A large variety of shapes can be produced from this raw material, e.g. square cuts, stampings, seals and mouldings.

Technical data:

	ZK EPDM 60 black	
Cellular rubber quality		
Density	60 ± 6 kg / m ³	ISO 845
Tensile strength	> 400 kPa	ISO 1798
Tensile elongation	> 270 %	ISO 1798
Compressive strength		ISO 3386 – 1
at 10 % compression	> 16 kPa	
at 25 % compression	> 30 kPa	
at 50 % compression	> 85 kPa	
Compression set	23 °C, 22 h stress, 50 % compression	ISO 1856
0.5 h after discharge	≤ 16 %	
24 h after discharge	≤ 6 %	
Thermal conductivity		DIN 52 612
at 10 °C	0.042 W / (m·K)	
at 40 °C	0.044 W / (m·K)	
Temperature resistance	- 40 to + 65 °C	ISO 2796
Dimensional stability	< 5 %	ISO 2796
Water absorption	≤ 1 vol.-%	DIN 53 428
Specific volume resistance	≥ 10 ¹⁵ Ωcm	DIN 60 093
Shore Hardness 00	> 20	internal
Horizontal burning rate	< 100 mm / min., thickness of test sample 10 mm	FMVSS 302
Fire classification	Class E, freely suspended, thickness 30 mm	DIN EN 13501-1
	Class E, stuck with complete surface to metallic substrates, thicknesses 10 to 30 mm	DIN EN 13501-1

Storage:

Do not store at high temperatures and/or high atmospheric humidity! Process material immediately since natural shrinkage occurs. Shrinkage is a natural phenomenon of the material and cannot therefore be avoided. We can accept neither claim nor return in cases of shrinkage.

Information:

We reserve the right to certain variations in respect of pore size, pore type, colour and plasticity as well as to changes which arise on the basis of new chemical and technical knowledge. All information is based upon tests carried out with considerable care. However, no guarantee can be accepted for agreement with results arising from use since from experience the effect of factors unknown to us which can affect the properties and life-time of the material must be taken into account during different conditions of use.

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information is non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

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