

IAF - Radioökologie GmbH

Radionuclide Laboratory | Radiation Safety | Radiological Consults

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DOYMA GmbH & Co
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Certificate

Radon Diffusion Coefficient

The radon diffusion coefficient D of the delivered molded part made from EPDM sealing material (product „Doyma-Grip“) has been measured for the company

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The results are described in the following table.

Description of variables	Measured values
Diffusion coefficient D	$6.95 \cdot 10^{-11} \text{ m}^2/\text{s}$
Diffusion length L_D	5.75 mm
Material thickness d	20.0 mm
Area of the material F	196 cm ²
Test parameter $R = d/L_D$	3.48
Results	R > 3, radon tight

A material is characterized as "radon tight" if its thickness exceeds the associated radon diffusion length of the material at least by a factor 3.

A "radon tight" material is defined by a diffusive radon penetration of no more than 5%.



Dr. rer. nat. habil. Hartmut Schulz
Managing Director

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DIN EN ISO 17025:2005 by DAkkS,
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