

Technical Specifications

Bacel Hardfoam RG30

Manufacturer	Aquaresins Technologies B.V.
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Unique producttype	Bacel Hardfoam RG30, in-situ formed void filling foam
Intended uses	Void & Cavity filling
Harmonised Standards	NEN-EN-ISO 844:2001 ASTM E-84-76A Nace code: F43 NEN-EN-ISO 9001:2015 NEN-EN-ISO 14001:2015
Notified bodies	TNO Science and Industry TÜV Nederland Quality Masters
Revision date	09-02-2022

Components

	Component A - Resin	Component B - Hardener
Trade name	Bacel Resin	Bacel Hardener
Voluminous mass @ 20 °C	1160 kg/m ³	1020 kg/m ³
Viscosity @ 20 °C	±55 mPa•s	±50 mPa•s
PH value	7,0 - 7,5	1,8 - 2,3

Product specifications

	Requirement
Apparent Voluminous mass	≥ 30 kg/m ³
Durability	The polymer remains stable in dry conditions for at least 150 years after production, subject to proper storage and handling.
Shrinkage	At soil temperatures around 8°C <1,8%
Compressive strength	ISO 844 Method .147 N/mm ² 14990 kg/m ²
Temperature resistance	Melting point: 120°C Flammability: Non flammable <25 by ASTM E-84-76A The polymer is non flammable, does not ignite nor burn.
Behaviour during heating	When heating to 70°C the cell structure of the dry foam may not visually change.
Chemical resistance	Resistant against organic solubles, mineral oils and hydrocarbons
Cell structure	73% Open cell structure



Test rapport TC-BRF-05-11873/mso

	Conditions
Specimen dimentions	approx. 100 x 100 x 50 mm
Number of specimen	5
Test speed	5mm/min
Conditions	(23±2)°C and (50±5)% R.H.
Apparent Voluminous mass	≥ 30 kg/m ³
Testing characteristics	The compressive stress is the ratio of the compressive force at 10% relative deformation to the initial cross-sectional area of the test specimen
	Prior to testing the density of each specimen was calculated from the actual dimensions and the weight of specimens. The results are given in table 1.

Declared compressive strength properties

Sample Code	Length	Width	Thickness	Voluminous Mass [kg/m ²]	Density [kPa]	Density [kN/m ²]	Density [N/mm ²]	Density [kg/m ²]
	Dimensions [mm]							
03.0548-1-30	85,8	85,7	44,7	32,2	143	143	0,143	14.586
03.0548-2-30	85,6	85,8	44,9	33,2	156	156	0,156	15.912
03.0548-3-30	86,0	85,7	47,2	33,2	156	156	0,156	15.912
03.0548-4-30	85,5	85,9	45,1	32,7	145	145	0,145	14.790
03.0548-5-30	85,9	85,6	45,1	34,8	135	135	0,135	13.770
				Average	147	147	0,147	14.990



The performance of the product identified above, is in conformity with the set of declared performances.

This declaration of performance is issued under the sole responsibility of the manufacturer above.

This Technical Specifications Document in PDF format is available on the Resins Industry / Aquaresins website.

