

Technical Specifications

Bacel Hardfoam RG50

Manufacturer	Aquaresins Technologies B.V.
Address	Nijverheidsweg 17A, 6651 KS, Druten, The Netherlands
Contact	Tel: +31 (0) 487 - 593 778 info@aquaresintechnologies.com www.aquaresintechnologies.com

Unique producttype	Bacel Hardfoam RG50, 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	≥ 50 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 .202 kN/mm ² 20600 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	≥ 50 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]							
03.0548-1-50	91,9	94,2	41,5	52,3	214	214	0,214	21.828
03.0548-2-50	94,1	90,6	41,0	46,9	203	203	0,203	20.706
03.0548-3-50	91,7	90,0	46,3	46,4	210	210	0,210	21.420
03.0548-4-50	90,8	93,0	47,0	44,0	190	190	0,190	19.380
03.0548-5-50	91,1	91,2	45,8	45,1	194	194	0,194	19.788
				Average	202	202	0,202	20.600



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.

