

Technical Data Sheet

CARBOFOL® HDPE 406 2,0 s/s GM13



NAUE GmbH & Co. KG
Gewerbstrasse 2
32339 Espelkamp-Fiestel
Germany

Phone: +49 5743 41-0 Fax: +49 5743 41-240
E-Mail: info@naue.com Internet: www.naue.com

CARBOFOL® is a resistant and multifunctional geomembrane (GBR-P) with smooth surface used in many fields of sealing applications

Property	Test Method	Unit	Values*	Testing Frequencies (minimum)
Thickness - average per roll width (tolerance: -0%) - lowest individual of 10 values (tolerance: -10%)	ASTM D5199	mm	2.00	per roll
Density	ASTM D792 / ASTM D1505	g/cm ³	≥ 0.940	90,000 kg
Melt Flow Rate (MFR), 190°C / 5.0 kg	ASTM D1238 / EN ISO 1133	g/10 min	1 - 3	per production lot
Carbon black content	ASTM D1603	%	2 - 3	9,000 kg
Carbon black dispersion	ASTM D5596	category	1 - 2	20,000 kg
NCTL – Test Stress crack resistance	ASTM D5397	hours	≥ 500	GRI GM-10
Tensile strength at yield	ASTM D6693	kN/m	≥ 29	9,000 kg
Elongation at yield	ASTM D6693	%	≥ 12	9,000 kg
Tensile strength at break	ASTM D6693	kN/m	≥ 53	9,000 kg
Elongation at break	ASTM D6693	%	≥ 700	9,000 kg
Tear resistance	ASTM D1004	N	≥ 249	20,000 kg
Puncture resistance	ASTM D4833	N	≥ 640	20,000 kg
Oxidative Induction Time (OIT)**				
a) Standard OIT	ASTM D3895	min	≥ 100	90,000 kg
b) High pressure OIT	ASTM D5885	min	≥ 400	
Oven Aging at 85°C** (retained after 90 days)				per each formulation
a) Standard OIT	ASTM D3895	min	≥ 55	
b) High pressure OIT	ASTM D5885	min	≥ 320	
UV Resistance				per each formulation
a) High pressure OIT	ASTM D5885	min	≥ 200	

*average result of specified test specimen over the width; **GM13: The manufacturer has the option to select either one of the OIT test methods

Item no.	6110233		
Roll size	length x width	m x m	120 x 7.5
Roll weight	approx.	kg	1,808

The listed technical values are guiding values achieved in our laboratories and/or independent testing institutes. Our products are subject to changes without prior notice.