

Technical Data Sheet



CARBOFOL® HDPE 406 2,5 s/s

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

Property	Test Method	Unit	Values*
Thickness nominal (tolerance: -5%)	EN 1849-2	mm	2.50
Density	EN ISO 1183	g/cm ³	≥ 0.940
Melt Flow Rate	EN ISO 1133 190°C / 5.0 kg	g/10 min	≥ 1.0 / ≤ 3.0
Melt Flow Rate	EN ISO 1133 190°C / 2.16 kg	g/10 min	≥ 0.5 / ≤ 1.0
OIT	EN 728 ISO 11357-6	min	≥ 100
Carbon black content	ASTM D1603 ASTM D4218	%	2 - 3
Carbon black dispersion	ASTM D5596	Category	1 - 2
NCTL – Test Stress crack resistance	ASTM D5397	hours	≥ 500
Tensile strength at yield	EN ISO 527-3	N/mm MPa	≥ 37 ≥ 16
Elongation at yield	EN ISO 527-3	%	≥ 10
Tensile strength at break	EN ISO 527-3	N/mm MPa	67 28
Elongation at break	EN ISO 527-3	%	700
Tear resistance	ISO 34-1	N	311
Puncture resistance	ASTM D4833 EN ISO 12236	N	800 6,100
Multi axial elongation	Based on DIN 53861 DIN EN 14151	%	≥ 15
Perforation resistance	DIN 16726	mm	1,600
Cold bending at -20°C	EN 1876 - 1	-	passed
Dimensional stability after warm storage 1h/100°C	EN 1107-2	%	≤ 2

*average result of specified test specimen over the width

Item no.	6110240		
Roll size	length x width	m x m	100 x 7.5
Roll weight	approx.	kg	1,820

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.