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Technical Data 2078 Carbofol® Type HDPE 406 OIT

smooth/smooth

dated: 20.01.2010

Property	Test Method	Unit				
Thickness nominal -5%	ASTM D 5199	mm	1,50	2,00	2,50	3,00
Width	/	m	9,4 / 4,7	9,4 / 4,7	9,4 / 4,7	9,4 / 4,7
Density	ASTM D 1505 ASTM D 792	g/cm ³	0,942	0,942	0,942	0,942
Melt Flow Rate	ASTM D 1238 Cond. P 190/5	g/10 min	< 3,0	< 3,0	< 3,0	< 3,0
Melt Flow Rate	ASTM D 1238 Cond. E 190/2,16	g/10 min	≥0,5 / ≤1,0	≥0,5 / ≤1,0	≥0,5 / ≤1,0	≥0,5 / ≤1,0
Tensile strength at yield	ASTM D 6693	N/mm MPA	25 16	33 16	43 16	50 16
Elongation at yield	ASTM D 6693	%	12	12	12	12
Tensile strength at break	ASTM D 6693	N/mm MPA	45 > 26	60 > 26	80 > 26	90 > 26
Elongation at break	ASTM D 6693	%	700	700	700	700
Carbon black content	ASTM D 1603	%	2	2	2	2
Carbon black dispersion	ASTM D 5596	Category	1-2	1-2	1-2	1-2
Tear resistance	ASTM D 1004	N	200	280	350	450
Cold bending at -20°C	ASTM D 2136	—	passed	passed	passed	passed
Multi axial elongation	Based on DIN 53861 / EN 14151	%	≥15	≥15	≥15	≥15
ESCR	ASTM D 1693	hours	2000	2000	2000	2000
Perforation resistance	DIN 16726	mm	800	1200	1600	1800
Dimensional stability after warm storage 1h/100°C	ASTM D 1204	%	≤ 2	≤ 1	≤ 1	≤ 1
NCTL – Test* Stress crack resistance	ASTM D 5397 app.	hours	> 400	> 400	> 400	> 400
OIT	ASTM D 3895	min	100	100	100	100
Puncture resistance	ASTM D 4833 EN ISO 12236	N	500 4000	700 5400	820 6700	1000 7500

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remark:

*requirement GM13 : 300h

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