

SynFill G

Fibreglass reinforcement filler



SYNTHENE SYNFILL G **New**

Purpose:

- Increase traction and flexion resistance
- Increase material rigidity
- Improve temperature resistance
- Reduce linear shrinkage
- Wide choice of options depending on the filler rate

Instructions for use:



1. Weigh the polyol and isocyanate components, add the SynFill G in the isocyanate component



2. Place the 2 components Polyol + (Iso + SynFill G) of the polyurethane in vacuum casting machine



3. Realize the vacuum casting with a 70°C preheated mould

Compatible with resins:

- >> PR777
- >> PR700
- >> PR752
- >> PR408
- >> PR500



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Filled products characteristics

PEHD/PP countertype PR777		+15% SYNFILL G	+20% SYNFILL G	+25% SYNFILL G
Hardness	75	78	79	80
Tensile modulus (MPa)	1000	1600	1900	2200
Maximum tensile strength (MPa)	32	34	38	40
Elongation at break (%)	35	25	11	7
Flexural modulus (MPa)	900	1600	2000	2200
Maximum flexural strength (MPa)	35	50	58	64
Charpy impact Resistance (KJ/m ²)	60	37	28	27
Heat Deflection temperature under load (°C) (Method A/B)	94 /B	76 /A	82 /A	86 /A

ABS countertype PR700		+15% SYNFILL G	+20% SYNFILL G	+25% SYNFILL G
Hardness	82	85	85	86
Tensile modulus (MPa)	1800	2800	3100	3500
Maximum tensile strength (MPa)	60	66	66	70
Elongation at break (%)	13	8	5	4
Flexural modulus (MPa)	1700	2700	3000	3400
Maximum flexural strength (MPa)	70	92	95	105
Charpy impact Resistance (KJ/m ²)	60	34	32	30
Heat Deflection temperature under load (°C) (Method A)	130 /A	140 /A	140 /A	140 /A

ABS countertype PR752		+15% SYNFILL G	+20% SYNFILL G	+25% SYNFILL G
Hardness	87	87	88	89
Tensile modulus (MPa)	1000	2300	2500	2700
Maximum tensile strength (MPa)	75	85	93	87
Elongation at break (%)	5	4	3,5	3
Flexural modulus (MPa)	2200	3850	4250	4650
Maximum flexural strength (MPa)	96	125	130	133
Charpy impact Resistance (KJ/m ²)	11,4	23	21	20
Heat Deflection temperature under load (°C) (Method A/B)	150 /B	169 /B	177 /B	177 /B



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ABS countertype PR408		+25% SYNFILL G
Hardness	77	77
Tensile modulus (MPa)	1700	3500
Maximum tensile strength (MPa)	39	50
Elongation at break (%)	10	3
Flexural modulus (MPa)	1600	3350
Maximum flexural strength (MPa)	60	80
Charpy impact Resistance (KJ/m ²)	28	20
Heat Deflection temperature under load (°C) (Method A/B)	70 /B	70 /B

PC/PA countertype PR500		+15% SYNFILL G	+20% SYNFILL G	+25% SYNFILL G
Hardness	85	88	88	89
Tensile modulus (MPa)	2800	4400	4600	5400
Maximum tensile strength (MPa)	78	84	86	93
Elongation at break (%)	10	4,5	3,5	2,3
Flexural modulus (MPa)	2600	4200	4500	5000
Maximum flexural strength (MPa)	102	135	131	139
Charpy impact Resistance (KJ/m ²)	69	40	35	34
Heat Deflection temperature under load (°C) (Method A/B)	93 /B	94 /A	94 /A	97 /A



