

PP GRADE

SÖZAL

PRODUCT	PRODUCT CODE	DESCRIPTION	PHYSICAL				THERMAL				MECHANICAL					FLAMMABILITY	
			Density	Filler Content	Viscosity	Mould Shrinkage	Melting Temperature	Melt Flow Index	Vicat Softening Temperature	Heat Distorsion Temperature	Tensile Strength	Tensile Strain at Break	Tensile Modulus	Notched Izod Impact Strength	Shore Hardness	UL	GLOW WIRE
			ISO 1183 gr/cm ³	ISO 3451 %	ISO 307 cm ³ /gr	- %	ISO 3146 C°	ISO 1133 gr/10dk	ISO 306 (50N) C°	ISO 75 (1,8) C°	ISO 527 Mpa	ISO 527 %	ISO 527 Mpa	ISO 180/1A kJ/m ²	ISO 868 Sh D	UL94 V Class	VDE 0471-2 C°
SOZAL CP GFR 10	SZCPGFR10NCHS	Polypropylene copolymer %10 glass fiber reinforced	0,90-1,00	9-11	-	0,40-0,60	160	3-20	95	90	40-60	>4	3000-4000	>4	65-70	-	-
SOZAL CP GFR 20	SZCPGFR20NCHS	Polypropylene copolymer %20 glass fiber reinforced	1,02-1,07	18-22	-	0,35-0,55	160	0,35-0,6	-	-	≥30	≥5	2250-3500	≥6	60-68	-	-
SOZAL CP GFR 30	SZCPGFR30NCHS	Polypropylene copolymer %30 glass fiber reinforced	1,09-1,15	28-32	-	0,30-0,50	160	3-7	-	-	≥60	≥1,5	5500-7000	≥10	68-78	-	-
SOZAL CP GFR 20 FR V0	SZCPGFR20NCX0	Polypropylene copolymer %20 glass fiber reinforced, V0 flamm.	1,24-1,30	17-22	-	0,35-0,55	160	3-18	110	110	50-80	>4	4000-7500	>8	65-70	V0	960
SOZAL CP GFR 20 FR V2	SZCPGFR20NCX2	Polypropylene copolymer %20 glass fiber reinforced, V2 flamm.	1,22-1,28	27-33	-	0,35-0,55	160	3-18	110	110	50-80	>4	4000-7500	>8	65-70	V2	750
SOZAL CP GFR 30 UV	SZCPGFR30NCHSUL	Polypropylene copolymer %30 glass fiber reinforced, UV stabilised	1,09-1,15	28-32	-	0,30-0,50	160	3-7	-	-	≥60	≥1,5	5500-7000	≥10	65-70	-	-
SOZAL CP MTF 10	SZCPMTF10NCHS	Polypropylene copolymer %10 talcum filled	0,96-1,00	8-Dec	-	0,95-1,10	160	15-25	95	100	15-25	≥15	1000-2000	≥15	55-65	-	-
SOZAL CP MTF 20	SZCPMTF20NCHS	Polypropylene copolymer %20 talcum filled	1,03-1,08	18-23	-	0,90-1,00	160	3-7	95	100	15-25	≥10	1000-2000	≥6	55-65	-	-
SOZAL CP MTF 25	SZCPMTF25NCHS	Polypropylene copolymer %25 talcum filled	1,07-1,13	23-27	-	0,90-1,00	160	4-7	95	100	≥20	≥7	2000-3000	≥7	60-98	-	-
SOZAL CP MTF 30	SZCPMTF30NCHS	Polypropylene copolymer %30 talcum filled	1,10-1,15	27-33	-	0,85-1,00	160	3-20	100	105	30-50	>10	2500-4000	>6	65-70	-	-
SOZAL CP MTF 40	SZCPMTF40NCHS	Polypropylene copolymer %40 talcum filled	1,20,1,26	37-43	-	0,80-0,90	160	3-20	105	105	35-55	>6	3000-5000	>6	65-70	-	-
SOZAL CP MTF 10 FR V0	SZCPMTF10NCHSX0	Polypropylene copolymer %10 talcum filled, V0 flammability	0,95-1,15	9-11	-	0,90-1,00	160	3-20	95	100	20-35	>15	2000-3000	>8	60-65	V0	960
SOZAL CP MTF 15 UV	SZCPMTF15NCHSUL	Polypropylene copolymer %15 talcum filled, UV stabilised	0,99-1,02	13-17	-	0,90-1,00	160	12-18	95	105	15-25	13-25	1000-2000	≥18	60-65	-	-
SOZAL CP MTF 25 UV	SZCPMTF25NCHSUL	Polypropylene copolymer %25 talcum filled, UV stabilised	0,96-1,15	23-25	-	0,90-1,00	160	3-20	105	105	30-45	>15	2500-3500	>6	60-65	-	-
SOZAL CP MTF 40 UV	SZCPMTF40NCHSUL	Polypropylene copolymer %40 talcum filled, UV stabilised	1,20,1,26	37-43	-	0,80-0,90	160	3-20	105	110	35-55	>6	3000-5000	>6	65-70	-	-
SOZAL CP MTF 15 IM	SZCPMTF15NCIM	Polypropylene copolymer %15 talcum filled, impact modified	1,00-1,03	13-17	-	0,90-1,00	160	7-14	95	100	15-25	≥25	1000-2000	≥10	58-65	-	-
SOZAL CP MTF 20 IM	SZCPMTF20NCIM	Polypropylene copolymer %20 talcum filled, impact modified	1,03-1,08	18-22	-	0,90-1,00	160	7-14	95	105	10-20	≥15	1000-2000	≥10	55-65	-	-
SOZAL CP FR V2 SIYAH	SZCPBKX2	Polypropylene copolymer V2 flammability	1,17-1,31	-	-	1,30-1,60	160	7-25	90	90	21-38	≥18	2000-3750	3-9	65-75	V2	750
SOZAL CP FR V0	SZCPNCX0	Polypropylene copolymer V0 flammability	1,07-1,12	-	-	1,30-1,60	160	3-20	90	90	>20	>20	2500-3500	>6	60-65	V0	960
SOZAL CP EFT 30 IM UV	SZCPGFR30NCIMUL	Polypropylene copolymer %30 mineral filled, impact modified, UV stabilised	1,15-1,20	-	-	0,80-0,90	160	3-20	105	105	30-50	>8	2500-3500	>6	65-70	-	-
SOZAL HP MCF 20	SZHPMCF20NCHS	Polypropylene %20 calcite filled	1,03-1,08	18-22	-	0,90-1,00	160	15-25	95	95	15-25	≥7	1500-2500	≥3	60-75	-	-
SOZAL HP MCF 30	SZHPMCF30NCHS	Polypropylene %30 calcite filled	1,15-1,20	27-33	-	0,80-0,90	160	3-18	100	100	20-35	>15	3000-5000	>4	65-70	-	-
SOZAL HP MCF 40	SZHPMCF40NCHS	Polypropylene %40 calcite filled	1,25-1,29	38-42	-	0,80-0,90	160	7-14	100	105	15-25	≥12	1500-2500	≥4	67-75	-	-
SOZAL HP MCF 45	SZHPMCF45NCHS	Polypropylene %45 calcite filled	1,25-1,30	42-48	-	0,80-0,90	160	3-15	105	105	30-50	>10	3000-5000	>4	65-70	-	-
SOZAL HP GFR 30	SZHPGFR30NCHS	Polypropylene %30 glass fiber reinforced	1,10-1,15	28-32	-	0,30-0,50	160	3-7	110	125	≥80	≥1,5	5000-7500	≥8	71-76	-	-
SOZAL HP GFR 40	SZHPGFR40NCHS	Polypropylene %40 glass fiber reinforced	1,19-1,24	38-42	-	0,25-0,35	160	3-7	120	125	≥75	≥2	6500-8500	≥10	70-80	-	-
SOZAL HP GFR 35	SZHPGFR35NCHS	Polypropylene %35 glass fiber reinforced	1,18-1,24	32-38	-	0,30-0,50	160	3-17	120	125	20-35	>4	6000-10000	>8	70-75	-	-
SOZAL HP MTF 5	SZHPMTF5NCHS	Polypropylene %5 talcum filled	1,92-0,98	4-7	-	1,00-1,10	160	3-25	90	90	25-35	>15	1500-2500	>4	60-65	-	-
SOZAL HP MTF 10	SZHPMTF10NCHS	Polypropylene %10 talcum filled	0,96-0,99	9-12	-	1,00-1,20	160	7-14	95	90	≥20	≥5	1500-3000	≥5	67-75	-	-
SOZAL HP MTF 15	SZHPMTF15NCHS	Polypropylene %15 talcum filled	0,99-1,03	13-17	-	0,90-1,00	160	7-14	95	90	≥15	≥7	≥1500	≥4	65-75	-	-
SOZAL HP MTF 20	SZHPMTF20NCHS	Polypropylene %20 talcum filled	1,03-1,08	18-22	-	0,90-1,00	160	7-14	95	90	≥25	≥5	≥2000	≥5	65-75	-	-
SOZAL HP MTF 30	SZHPMTF30CHS	Polypropylene %30 talcum filled	1,14-1,18	28-32	-	0,80-0,90	160	3-7	100	95	20-35	≥4	2500-4000	≥4	67-77	-	-
SOZAL HP MTF 40	SZHPMTF40NCHS	Polypropylene %40 talcum filled	1,24-1,28	39-42	-	0,80-0,90	160	3,5-7	105	100	≥27	≥3	2200-3850	≥3	70-78	-	-

Note: All grades can be colored depending on demands.

SÖZAL

COMPOUND



PA GRADE

SÖZAL

PRODUCT	PRODUCT CODE	DESCRIPTION	PHYSICAL				THERMAL				MECHANICAL					FLAMMABILITY	
			Density	Filler Content	Viscosity	Mould Shrinkage	Melting Temperature	Melt Flow Index	Vicat Softening Temperature	Heat Distorsion Temperature	Tensile Strenght	Tensile Strain at Break	Tensile Modulus	Notched Izod Impact Strength	Shore Hardness	UL	GLOW WIRE
			ISO 1183 gr/cm ³	ISO 3451 %	ISO 307 cm ³ /gr	-	ISO 3146 C°	ISO 1133 gr/10dk	ISO 306 (50N) C°	ISO 75 (1,8) C°	ISO 527 Mpa	ISO 527 %	ISO 527 Mpa	ISO 180/1A kJ/m ²	ISO 868 Sh D	UL94 V Class	VDE 0471-2 C°
SOZAL PA 6	SZPA6NC	Polyamide 6	1,12-1,16	-	2,46-2,80	0,80-1,00	220	-	205	70	60-90	≥10	2000-4000	≥7	75-85	-	-
SOZAL 6 GFR 10	SZPAGFR10NCHS	Polyamide 6, %10 glass fiber reinforced	1,17-1,21	8-12	-	0,45-0,60	220	-	210	195	60-110	≥2	3000-5000	≥5	75-85	-	-
SOZAL 6 GFR 15	SZPA6GFR15NCHS	Polyamide 6, %15 glass fiber reinforced	1,18-1,23	13-17	-	0,25-0,45	220	-	215	200	90-130	≥2	4000-6500	≥7	75-85	-	-
SOZAL 6 GFR 20	SZPA6GFR20NCHS	Polyamide 6, %20 glass fiber reinforced	1,23-1,27	18-22	-	0,15-0,25	220	-	215	205	100-150	≥2	5500-8000	≥6	75-85	-	-
SOZAL 6 GFR 25	SZPA6GFR25NCHS	Polyamide 6, %25 glass fiber reinforced	1,28-1,32	23-27	-	0,15-0,25	220	-	215	210	120-160	≥2	6500-8500	≥10	75-85	-	-
SOZAL 6 GFR 30	SZPA6GFR30NCHS	Polyamide 6, %30 glass fiber reinforced	1,32-1,36	28-32	-	0,10-0,20	220	-	215	210	140-190	≥2	8000-10500	≥10	75-85	-	-
SOZAL 6 GFR 35	SZPA6GFR35NCHS	Polyamide 6, %35 glass fiber reinforced	1,39-1,42	33-37	-	0,10-0,20	220	-	215	210	140-190	≥2	9000-12000	≥10	75-85	-	-
SOZAL 6 GFR 30 FR V0	SZPA6GFR30NCX0	Polyamide 6, %30 glass fiber reinforced, V0 flammability	1,55-1,65	28-32	-	0,10-0,20	220	-	215	205	120-170	≥2	9000-11000	≥10	75-85	V0	960
SOZAL 6 IM	SZPA6NCIM	Polyamide 6, impact modified	1,07-1,11	-	-	1,00-1,10	220	-	205	70	45-75	≥20	1500-2500	≥15	70-80	-	-
SOZAL 6 GFR 15 IM	SZPA6GFR15NCIM	Polyamide 6, %15 glass fiber reinforced, impact modified	1,18-1,20	13-17	-	0,50-0,75	220	-	215	200	70-120	≥3	3000-5000	≥15	75-85	-	-
SOZAL 6 GFR 20 IM	SZPA6GFR20NCIM	Polyamide 6, %20 glass fiber reinforced, impact modified	1,20-1,24	18-22	-	0,45-0,60	220	-	215	190	60-90	>10	4500-7000	>15	75-80	-	-
SOZAL 6 GFR 30 IM	SZPA6GFR30NCIM	Polyamide 6, %30 glass fiber reinforced, impact modified	1,29-1,33	28-32	-	0,25-0,45	220	-	215	210	120-170	≥2	5500-8000	≥15	75-85	-	-
SOZAL 6 GXR 40 IM	SZPA6GFB40NCIM	Polyamide 6, %40 glass fiber/beads reinforced, impact modified	1,42-1,47	38-43	-	0,20-0,35	220	-	210	195	120-160	>2	7000-9000	>15	75-85	-	-
SOZAL 6 FR V0	SZPA6NCX0	Polyamide 6, V0 flammability	1,18-1,25	-	-	1,00-1,05	220	-	205	85	40-90	≥4	3000-4500	≥5	75-85	V0	960
SOZAL 6 GBR 15	SZPA6GBR15NCHS	Polyamide 6, %15 glass beads reinforced	1,20-1,24	14-17	-	0,75-0,09	220	-	215	205	60-80	>12	2000-3500	>6	75-80	-	-
SOZAL 6 GBR 30	SZPA6GBR30NCHS	Polyamide 6, %30 glass beads reinforced	1,33-1,37	28-32	-	0,45-0,55	220	-	210	195	50-100	≥8	3000-5500	≥6	75-85	-	-
SOZAL 6 GXR 40 UV	SZPA6GFB40NCHSUL	Polyamide 6, %40 glass fiber/beads reinforced, UV stabilised	1,42-1,46	38-43	-	0,20-0,45	220	-	210	200	50-100	≥2	3000-5000	≥7	75-85	-	-
SOZAL 6 GXR 20	SZPA6GFB20NCHS	Polyamide 6, %20 glass fiber/beads reinforced	1,23-1,27	18-22	-	0,35-0,45	220	-	210	195	50-100	≥2	3500-6000	≥5	75-85	-	-
SOZAL 6 GXR 30	SZPA6GFB20NCHS	Polyamide 6, %30 glass fiber/beads reinforced	1,33-1,37	28-32	-	0,35-0,40	220	-	210	195	60-120	≥2	3500-6000	≥5	75-85	-	-
SOZAL 6.6	SZPA66NC	Polyamide 6.6	1,12-1,16	-	2,40-2,80	1,00-1,10	265	-	240	70	50-90	≥2	2000-4000	≥8	75-85	-	-
SOZAL 6.6 GFR 15	SZPA66GFR15NCHS	Polyamide 6.6, %15 glass fiber reinforced	1,21-1,26	14-18	-	0,75-0,60	265	-	255	245	80-130	≥2	5500-8500	≥5	75-85	-	-
SOZAL 6.6 GFR 20	SZPA66GFR20NCHS	Polyamide 6.6, %20 glass fiber reinforced	1,26-1,30	18-22	-	0,60-0,50	265	-	255	250	70-120	≥2	5000-8000	≥6	75-85	-	-
SOZAL 6.6 GFR 25	SZPA66GFR25NCHS	Polyamide 6.6, %25 glass fiber reinforced	1,29-1,34	23-27	-	0,45-0,60	255	-	255	250	130-180	≥2	7000-9000	≥8	75-85	-	-
SOZAL 6.6 GFR 30	SZPA66GFR30NCHS	Polyamide 6.6, %30 glass fiber reinforced	1,33-1,37	28-32	-	0,35-0,25	263	-	255	250	150-190	≥2	8000-10000	≥10	75-85	-	-
SOZAL 6.6 GFR 35	SZPA66GFR35NCHS	Polyamide 6.6, %35 glass fiber reinforced	1,39-1,42	34-37	-	0,30-0,20	265	-	255	255	170-220	≥2	11000-15000	≥10	75-85	-	-
SOZAL 6.6 GFR 50	SZPA66GFR50NCHS	Polyamide 6.6, %50 glass fiber reinforced	1,551,56	48-52	-	0,15-0,20	265	-	255	260	190-240	≥2	13000-16000	≥10	75-85	-	-
SOZAL 6.6 IM	SZPA66NCIM	Polyamide 6.6, impact modified	1,08-1,11	-	-	1,00-1,10	265	-	235	75	50-80	≥10	1850-3500	≥20	70-75	-	-
SOZAL 6.6 GFR 15 IM	SZPA66GFR15NCIM	Polyamide 6.6, %15 glass fiber reinforced, impact modified	1,20-1,24	15-19	-	0,75-0,60	265	-	255	245	70-120	≥3	4500-6000	≥10	75-85	-	-
SOZAL 6.6 GFR 10 FR V0	SZPA66GFR10NCX0	Polyamide 6.6, %10 glass fiber reinforced, V0 flammability	1,30-1,40	9-11	-	0,60-0,50	265	-	255	245	70-120	≥2	4000-6000	≥5	75-85	V0	960
SOZAL 6.6 GFR 20 FR V0	SZPA66GFR20NCX0	Polyamide 6.6, %20 glass fiber reinforced, V0 flammability	1,45-1,55	18-22	-	0,45-0,60	265	-	255	250	100-130	≥2	7000-9000	≥8	75-85	V0	960
SOZAL 6.6 GFR 25 FR V0	SZPA66GFR25NCX0	Polyamide 6.6, %25 glass fiber reinforced, V0 flammability	1,42-1,52	23-27	-	0,35-0,25	265	-	235	240	100-150	≥2	8500-11000	≥7	75-85	V0	960
SOZAL 6.6 GFR 30 FR V0	SZPA66GFR30NCX0	Polyamide 6.6, %30 glass fiber reinforced, V0 flammability	1,55-1,65	28-32	-	0,30-0,20	265	-	255	255	130-170	≥2	9000-12000	≥8	75-85	V0	960
SOZAL 6.6 GFR 35 FR V0	SZPA66GFR35NCX0	Polyamide 6.6, %35 glass fiber reinforced, V0 flammability	1,60-1,70	32-38	-	0,15-0,20	265	-	255	255	150-220	≥2	11000-15000	≥10	75-85	V0	960
SOZAL 6.6 FR V0	SZPA66NCX0	Polyamide 6.6, V0 flammability	1,17-1,25	-	-	1,00-1,10	265	-	240	75	60-110	≥2	3000-5000	≥5	75-85	V0	960
SOZAL 6.6 GBR 20	SZPA66GFB20NCHS	Polyamide 6.6, %20 glass beads reinforced	1,25-1,29	18-22	-	0,80-0,75	265	-	235	245	70-120	≥3	3000-5000	≥5	75-85	-	-
SOZAL 6.6 GFR 40 IM	SZPA66GFR40NCIM	Polyamide 6.6, %40 glass fiber reinforced, impact modified	1,45-1,52	37-43	-	0,60-0,45	265	-	235	250	150-170	>3	7500-10000	>12	80-85	-	-
SOZAL 6.6 GXR 25	SZPA66GFB25NCHS	Polyamide 6.6, %25 glass fiber/beads reinforced	1,35-1,40	23-27	-	0,45-0,30	265	-	240	250	135-145	>3	4500-6500	>10	75-80	-	-
SOZAL 6.6 GTF 45	SZPA66GFM25NCHS	Polyamide 6.6, %25 glass fiber/talcum reinforced	1,20-1,25	23-27	-	0,45-0,30	265	-	235	255	120-130	>3	3500-5000	>10	75-80	-	-

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SÖZAL
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INDUSTRIES



HOUSEHOLD



AUTOMOTIVE



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AGRICULTURE



DEFENDERS



FURNITURES



CONSTRUCTION



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