

Circo® Recycled plastics and compounds - Product catalog and technical details

Circo® recycled plastic offers sustainable and versatile solutions to replace virgin plastics. Our post-consumer recycled (PCR) materials are available in basic grades, PP, HDPE and LDPE, and in customised compounds to meet the technical and environmental requirements of your product.

Basic grades

Basic grades	Tensile Modulus	Tensile Strength at Yield	Tensile Strength at Yield, Machine direction	Tensile Strength at Yield, Transverse direction	Tensile Elongation at Break	Tensile Elongation at Break, Machine direction	Tensile Elongation at Break, Transverse direction	Flexural Modulus	Flexural Strength	Charpy Impact Strength (A notched) +23°C	Charpy Impact Strength (Unnotched) +23°C	Density	Post-consumer recycled (PCR) content *	Melt flow rate (190°C/2,16 kg)	Melt flow rate (190°C/5,0 kg)	Melt flow rate (230°C/2,16 kg)	Colour	Filtration	Mold shrinkage	Antioxidant package	European Standard on Safety of Toys EN 71-3:2019 + A1:2021	Blown film	Extrusion	Blow molding	Injection molding	
	Circo® LDPE 2002 Grey			16	14		>350	>450				965	97	0,7			Grey	110				x				
	Circo® LDPE 1000 Grey			16	14		>350	>450				965	97	0,7			Grey	200					x			
	Circo® LDPE 2202-TSS Grey			16	14		>350	>450				965	97	0,7			Grey	110			x	x				
	Circo® HDPE 1000 Grey	820	25			14						960	100		1,7		Grey	110						x		
	Circo® HDPE 1001 Light Grey	820	24			15						980	96		1,8		Light Grey	110		x				x		
	Circo® HDPE 10012 Light Grey	820	24			15						980	96		1,8		Light Grey	110		x				x		
	Circo® HDPE 1201-TSS Grey	820	25			14						960	98		1,7		Grey	110		x	x			x		
	Circo® PP 11-1000 Grey	1250	26			9			1200	33	5,2	44	930	100			10	Grey	110	1,7					x	
	Circo® PP 11-1001 Grey	1250	26			9			1200	33	5,2	44	930	98			10	Grey	110	1,7	x				x	
Circo® PP 11-1201-TSS Grey	1250	26			9			1200	33	5,2	44	930	98			10	Grey	110	1,7	x	x			x		
Circo® PP 22-1000 Grey	1200	25			6			1100	32	4,3	43	920	100			22	Grey	110	1,8					x		
Circo® PP 22-1001 Grey	1200	25			6			1100	32	4,3	43	920	98			22	Grey	110	1,8	x				x		
Circo® PP 22-1201-TSS Grey	1200	25			6			1100	32	4,3	43	920	98			22	Grey	110	1,8	x	x			x		
Units	MPa	MPa	MPa	MPa	%	%	%	MPa	MPa	kJ/m²	kJ/m²	kg/m³	%	g/10min	g/10min	g/10min		µm								
Test Method	ISO 527	ISO 527	ISO 527	ISO 527	ISO 527	ISO 527	ISO 527	ISO 178	ISO 178	ISO 179	ISO 179	ISO 1183	Weight	ISO 1133	ISO 1133	ISO 1133										



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Read more on our website
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9/2025

Compounds

	Tensile Modulus	Tensile Strength at Yield	Tensile Elongation at Break	Flexural Modulus	Flexural Strength	Charpy Impact Strength (Unnotched) +23°C	Charpy Impact Strength (A notched) +23°C	Charpy Impact Strength (Unnotched) -20°C	Charpy Impact Strength (A notched) -20°C	Density	Melt flow rate (230°C/2,16 kg)	Melt flow rate (200°C/10,0 kg)	Mold shrinkage	Post-consumer recycled (PCR) content	Total recycled content	Filler content	Filler: Cellulose fibre	Filler: Talcum	Filler: Long Glass fibre	Filler: Short Glass fibre	Impact modified	Colour (Standard: Grey or incl. color MB)	Flame rating at 3 mm
Circo® PP-CF 40	3600	47	2	3800	77	32	6			1050				>35		40	x					std	
Circo® PP-CF 30	3000	39	2	3300	67	29	6			1030		7,3		>50		30	x					std	
Circo® PP-CF 20	2100	30	3	2300	51	26	5			990		9		>65		20	x					std	
Circo® PP-CF 10	1500	24	5	1600	38	32	4			950		10		80		10	x					std	
Circo® PP-CF 40 HF	4100	44	2	4300	79	30	3,7			1090		15		35		40	x					std	
Circo® PP-CF 30 HF	3000	37	3	3100	64	35	3,6			1040		30		>50		30	x					std	
Circo® PP-CF 20 HF	2300	31	4	2300	51	37	3,5			1000		70		>65		20	x					std	
Circo® PP-CF 30-HFi-4031	2400	31	3	2800	53	33	5,3			1040		29	1,3	>40		30	x				x	std	
Circo® PP-CF 20 HFi-5516	2000	26	5	1900	43	41	4,4			990		56	1,3	>55		20	x				x	std	
Circo® PP-CF 20-HB-4015B	2400	31	2	2400	50	26	7,1			1060		14	1,3	>40		20	x					std	HB
Circo® PP 20 V0-i-5576A	1400	17	24	1370		26	3,3			1000	20			>55							x	Grey	VO
Circo® PP 22-T17	1500	20	15	1500	34	55	4,1			1020	20		1,6	82		17		x				std	
Circo® PP 22-T21	1800	21	8	1900	37	41	3,4			1050	20		1,3	75		21		x				std	
Circo® PP 22-T30	1600	20	4	2100	39	32	2,8			1170	17		1,2	65		30		x				std	
Circo® PP 11-T17	1900	24	11	1900	38	42	3,1			1060	8		1,5	85		17		x				std	
Circo® PP 11-T21	1900	24	9	2400	39	44	3			1090	8		1,3	75		21		x				std	
Circo® PP 11-T30	2300	24	7	2600	40	29	3,1			1170	6		1,2	70		30		x				std	
Circo® PP 08-i-3025B	1400	27	12	1300	37	NB	8,7			910	8		1,7	30							x	std	
Circo® PP 10-T30-LTi-6523	1900	23	10	2400	38	47	4,2	20	2	1140	10		1,2	65		30		x			x	std	
Circo® PP 12-i-9025A Grey	1000	24	15	1000	30	NB	7,2			920	12		1,7	90							x	Grey	
Circo® PP 20-T30-LTi-6523B	2100	22	6	2000	32	37	3,7	15	1,6	1120	20		1,2	65		30		x			x	std	
Circo® PP 22-LTi088	1000	22	50	900	27	NB	7,6	27	2,2	931	22		1,8	>85							x	Grey	
Circo® PP 23-LTi-704C	1000	21	9	1000	29	NB	7,5	29	2,5	920	23		1,7	>70							x	std	
Circo® PP 28-LTi-704D Black	1000	20	12	1000	29	NB	8,1	34	2,7	920	28		1,7	>65	>70						x	Black	
Circo® PP 29-LTi-754G1 Black	700	18	34	830	14	NB	31	62	4	910	29		1,8	>60	>70						x	Black	
Circo® PP 33-LTi-754B	1200	23	6	1200	32	69	4	25	1,8	920	33		1,7	>75							x	std	
Circo® PP 37-LTi-654G2 Black	800	18	20	850	14	NB	16	58	4	910	37		1,8	>55	>65						x	Black	
Circo® PP 38-i-805B	800	20	12	700	25	NB	5,4			920	38		1,8	>80							x	std	
Circo® PP 38-LTi-7026 Black	800	17	9	700	20	NB	14	63	4,3	910	38		1,8	>60	>70						x	Black	
Circo® PP-T FM14-LTi	1400	23	19	1400	31	NB	8,7	30	2	990	10		1,5	75		15		x			x	std	
Circo® PP 46-T10-8030A	1200	22	6	1300	31	42	3,2			990	46		1,5	80		10		x				std	
Circo® PP 46-T10-7030B	1300	23	5	1400	34	38	2,6			990	46		1,5	70		10		x				std	
Circo® PP-GF 10	2300	40	5	2300	35	31	6	26	3,5	990	8,8		0,5	>85		10				x		std	
Circo® PP-GF 10 LF	2300	39	5	2200	34	33	8	30	5	990	4,1		0,5	>85		10				x		std	
Circo® PP-GF 20	3400	58	4	3800	58	34	9	33	7	1060	4,8		0,2	>75		20				x		std	HB
Circo® PP-GF 20 LF	3400	57	4	3800	56	40	10	35	7	1060	2,3		0,2	>75		20				x		std	HB
Circo® PP-GF 30	4100	69	4	4100	77	41	10	37	7	1140	5,5		0,1	>65		30				x		std	HB
Circo® PP-GF 30 LF	4500	73	4	5000	81	44	11	45	9	1140	1,6		0,1	>65		30				x		std	HB
Circo® PP-GF 40	5100	81	5	7300	102	46	12	43	9	1240	3,4		0,1	>55		40				x		std	HB
Circo® PP-GF 40 LF	5400	83	4	6400	100	54	13	49	10	1240	1,5		0,1	>55		40				x		std	HB
Circo® PP-LGF 30-6520	6800	74	1			36	12	34	8,8	1140			0,1/1,8	>65		30			x			Grey	
Circo® PP-LGF 40-5520C	8300	83	1			37	12	37	10	1210			0,0/1,6	>55		40			x			Grey	
Circo® PP-LGF 60-3520D	13000	93	1			36				1480			0,0/1,4	>35		60			x			Grey	
Units	MPa	MPa	%	MPa	MPa	kJ/m ²	kJ/m ²	kJ/m ²	kJ/m ²	kg/m ³	g/10min	g/10min	%	%	%	%							
Test Method	ISO 527	ISO 527	ISO 527	ISO 178	ISO 178	ISO 179	ISO 179	ISO 179	ISO 179	ISO 1183	ISO 1133	ISO 1133	Internal	Weight	Weight	Internal							UL94

Disclaimer: It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. The suitability of the material for the planned use should be always verified by the customer. NG Nordic is reporting these values and guidelines based on its own knowledge; updates may occur without notice. Please verify data accuracy with NG Nordic.