

MUSCLEFLEX



CONVEYOR BELTING



CONVEYOR BELTS

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TECHNICAL DATA – NN BELTS

Belt Designation PP or NN (Nylon - Nylon)	Recommended Maximum Belt Tension (RMBT)	Nominal Carcass Thickness	Nominal Carcass Weight	Maximum belt width (mm) for satisfactory load support for material bulk density upto (t/m ³)			Minimum Belt Width (mm) for Adequate Troughing of Empty Belt		
				* Rating	(kN/m)	(mm)	(kg/m ²)	1.0	1.6
200/2	20	2.2	3.60	650	500	400	300	400	400
250/2	25	2.4	4.08	650	500	400	300	400	500
315/2	31.5	2.6	4.02	800	650	500	400	400	450
400/2	40	2.8	4.26	1000	800	650	400	450	500
500/2	50	3.3	5.07	1200	900	650	400	500	650
630/2	63	3.9	5.74	1200	900	650	450	650	650
250/3	25	2.7	3.60	900	750	600	400	450	500
315/3	31.5	2.7	3.75	1000	800	650	400	450	500
400/3	40	3.0	4.14	1000	900	650	450	500	500
400/4	40	3.8	5.00	1200	900	800	450	500	500
500/3	50	3.3	4.44	1200	900	800	500	500	500
500/4	55	4.2	5.52	1200	1000	800	500	500	650
500/5	55	4.9	6.25	1400	1200	900	500	650	800
630/3	63	3.6	4.80	1200	1000	800	450	500	500
630/4	70	4.6	5.92	1400	1200	900	500	500	650
630/5	70	5.4	6.90	1800	1600	1200	500	650	800
800/3	80	5.0	6.24	1600	1400	1000	500	500	650
800/4	90	5.0	6.40	1600	1400	1000	500	500	650
800/5	90	5.9	7.40	1800	1400	1200	500	650	800
1000/3	100	5.2	6.33	1600	1400	1000	500	650	650
1000/4	110	5.8	6.82	1800	1400	1200	500	650	800
1000/5	110	6.4	8.00	1800	1600	1400	500	650	800
1250/4	140	6.9	8.32	1800	1600	1400	650	650	800
1250/5	140	7.4	8.65	1800	1600	1600	650	800	900
1400/4	155	7.2	8.44	1800	1600	1600	650	800	900
1400/5	155	8.8	10.00	2000	1800	1800	650	800	900
1400/6	155	9.0	10.38	2000	1800	1800	800	900	1000
1500/5	165	8.8	10.40	2000	1800	1800	800	900	1000
1500/6	165	9.0	10.38	2000	1800	1800	800	900	1000
1600/4	175	8.6	10.00	2000	2000	2000	650	800	900
1600/5	180	9.2	10.55	2000	2000	2000	800	900	1000
1800/6	200	10.7	12.48	2000	2000	2000	800	1000	1200
2000/5	230	11.0	12.50	2000	2000	2000	800	1000	1200
2000/6	230	11.2	12.66	2000	2000	2000	1000	1200	1400

* kN per mtr / No. of plies



TECHNICAL DATA – NN BELTS... contd.

Notes

1. **MRF MUSCLEFLEX** belts are designed to denote the full thickness breaking strength in kilo Newtons / metre width and the number of plies comprising the carcass. For example a rating of 315/3 would denote a full thickness breaking strength of 315 kN/m width, comprising 3 plies of fabric reinforcement.
2. Carcass thicknesses and weights are subject to manufacturing tolerances. Belts with values other than in tables can be manufactured for special requirements. For FR grade belts, nominal carcass weight will be 20% extra approx. MRF reserves the right to change above parameters without any notice in the light of technological developments.
3. Load support data is based on belt sag between idlers being limited to maximum 2% of idler span and idler nips of maximum 10 mm, with capacity utilization above 75%.
4. All belts are suitable for deep troughing idlers in commonly used widths for the given ratings.
5. Nominal cover weight per mm thickness may be taken as 1.1 kg/M² for M24, N17 and HR grades. For other grades, please contact MRF Technical Service Department.



TECHNICAL DATA – EP BELTS

Belt Designation EP or PN (Polyester - Nylon)	Recommended Maximum Belt Tension (RMBT)	Nominal Carcass Thickness	Nominal Carcass Weight	Maximum belt width (mm) for satisfactory load support for material bulk density upto (t/m ³)			Minimum Belt Width (mm) for Adequate Troughing of Empty Belt		
				* Rating	(kN/m)	(mm)	(kg/m ²)	1.0	1.6
200/2	20	2.2	3.54	650	500	400	250	300	350
250/2	25	2.6	3.90	800	650	500	300	350	400
315/2	31	2.6	4.00	800	650	500	300	350	400
400/2	40	3.2	4.96	1000	800	650	350	400	450
500/2	50	3.8	5.28	1000	800	650	350	400	450
630/2	63	4.6	6.20	1200	1000	800	400	500	600
250/3	25	2.8	3.79	1000	800	650	350	400	450
315/3	31	2.8	3.93	1000	800	650	350	400	450
400/3	40	3.4	4.29	1000	800	650	350	450	500
400/4	40	3.9	5.24	1200	1000	800	400	500	600
500/3	50	3.4	4.44	1200	900	800	350	450	500
500/4	55	4.7	5.72	1400	1200	1000	400	500	600
630/3	63	4.0	5.07	1200	1000	800	400	500	600
630/4	70	4.7	5.92	1400	1200	1000	450	550	650
630/5	70	6.0	7.15	1800	1600	1400	500	650	750
800/3	80	6.5	7.77	1600	1400	1200	450	550	650
800/4	90	5.5	6.76	1600	1400	1000	450	600	750
800/5	90	6.0	7.40	1800	1600	1400	500	650	750
1000/3	100	6.8	8.34	1600	1400	1200	450	550	650
1000/4	110	6.7	7.36	1800	1600	1400	500	650	800
1000/5	110	7.0	8.45	1800	1800	1600	600	750	900
1250/4	140	8.9	10.36	1800	1800	1600	650	800	900
1250/5	140	8.5	9.20	2000	1800	1800	650	800	900
1400/4	155	9.3	11.12	1800	1800	1600	650	800	900
1400/5	155	11.3	12.95	2000	1800	1800	800	900	1000
1500/5	165	11.3	12.95	2000	1800	1800	800	900	1000
1500/6	165	10.3	11.04	2000	2000	1800	800	900	1000
1600/4	180	10.4	12.36	2000	1800	1600	650	750	900
1600/5	180	11.8	13.90	2000	1800	1800	800	900	1000
1600/6	180	13.7	15.54	2400	2000	2000	1000	1200	1400
1800/6	200	13.7	15.54	2400	2000	2000	1000	1200	1400
2000/4	220	11.8	14.48	2000	2000	1800	800	1000	1200
2000/5	220	13.2	15.45	2400	2000	2000	1000	1200	1400
2000/6	220	14.3	16.68	2400	2000	2000	1000	1200	1400

* kN per mtr / No. of plies



TECHNICAL DATA – EP BELTS... contd.

Notes

1. **MRF MUSCLEFLEX** belts are designed to denote the full thickness breaking strength in kilo Newtons / metre width and the number of plies comprising the carcass. For example a rating of 315/3 would denote a full thickness breaking strength of 315 kN/m width, comprising 3 plies of fabric reinforcement.
2. Carcass thicknesses and weights are subject to manufacturing tolerances. Belts with values other than in tables can be manufactured for special requirements. For FR grade belts, nominal carcass weight will be 20% extra approx. MRF reserves the right to change above parameters without any notice in the light of technological developments.
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4. All belts are suitable for deep troughing idlers in commonly used widths for the given ratings.
5. Nominal cover weight per mm thickness may be taken as 1.1 kg/M² for M24, N17 and HR grades.
For other grades, please contact MRF Technical Service Department.