

PSR[®]

Markets: *Aggregates, Wood, Pulp & Paper, Sand & Gravel, Precious Metals, Cement Plants, Steel Mills, Foundries, Power Generation, Ports Terminals*

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- ▶ Economic Product
- ▶ Unsurpassed resistance to abrasion, cutting, gouging and tearing
- ▶ Outstanding wear characteristics
- ▶ Excellent adhesion between cover and plies
- ▶ Low stretch
- ▶ Excellent load support and troughability
- ▶ Resistant to moisture and mildew



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100% Safe Behavior & Conditions – Today

PSR SPECIFICATION TABLE - "Imperial"

GENERAL DATA

	PSR 80	PSR 110				PSR 125			PSR 150				PSR 200					PSR 250				PSR 300				PSR 500	
Fabric Ply	2-160	2-220	3-330	4-440	5-550	2-250	3-375	4-500	2-300	3-450	4-600	5-750	2-400	3-600	4-800	5-1000	6-1200	2-500	3-750	4-1000	5-1250	2-600	3-900	4-1200	5-1500	3-1500	4-2000
Carcass Style	2	2	3	4	5	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
Number of Plies	2	2	3	4	5	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
Carcass Gauge (in)	.110	.122	.176	.216	.276	.132	.188	.234	.150	.183	.252	.321	.186	.237	.324	.411	.498	.198	.255	.348	.441	.182	.285	.388	.491	.432	.584
Carcass Weight (lb/in/ft)	.052	.054	.081	.101	.131	.059	.087	.110	.066	.081	.114	.147	.083	.108	.153	.197	.242	.087	.116	.162	.209	.077	.130	.182	.235	.186	.258
Elastic Modulus (lbs/in)	26000	35000	45000	55000	65000	30000	35000	55000	37000	47000	57000	67000	44000	72000	82000	105000	132000	62000	72000	90000	98000	63000	84000	100000	108000	108000	134000

CONVEYOR BELT SPECIFICS

Max Tension Rating (PIW)	160	220	330	440	550	250	375	500	300	450	600	750	400	600	800	1000	1200	500	750	1000	1250	600	900	1200	1500	1500	2000	
Troughing/Empty - Min Belt Width (in)																												
20 degree idlers	14	16	20	24	30	16	20	30	18	24	30	36	20	28	30	36	42	24	30	36	42	28	30	36	48	42	48	
35 degree idlers	18	20	24	30	30	20	24	30	20	30	36	36	24	30	36	42	48	30	36	42	48	30	36	42	54	48	54	
45 degree idlers	NR	24	30	36	36	24	30	36	28	36	42	42	30	36	42	48	54	36	42	48	54	36	42	48	60	54	60	
Load Support - Max Width (in)																												
20 deg idlers 0 - 40 lbs/ft	36	48	60	72	72	54	72	84	60	72	84	84	66	84	96	96	96	72	84	96	96	72	96	96	96	96	96	96
20 deg idlers 41 - 80 lbs/ft	30	42	54	66	72	48	60	72	54	60	84	84	60	72	96	96	96	66	72	96	96	72	84	96	96	96	96	
20 deg idlers 81 - 120 lbs/ft	30	36	48	60	66	42	54	66	48	54	72	84	54	66	84	84	84	60	72	84	84	60	72	84	84	84	84	
20 deg idlers over 120 lbs/ft	NR	30	42	54	60	36	48	60	42	48	66	72	48	60	72	84	84	54	60	72	84	54	66	72	84	84	84	
35 deg idlers 0 - 40 lbs/ft	36	42	54	72	72	48	60	72	54	60	84	84	60	72	96	96	96	66	72	96	96	72	84	96	96	96	96	
35 deg idlers 41 - 80 lbs/ft	24	36	48	60	72	42	60	66	48	60	72	72	54	60	84	84	96	60	66	84	96	60	72	84	96	96	96	
35 deg idlers 81 - 120 lbs/ft	24	30	42	54	60	36	54	60	42	54	66	66	48	54	72	84	84	54	60	72	84	54	60	72	84	84	84	
35 deg idlers over 120 lbs/ft	NR	24	36	48	54	30	42	54	36	42	54	60	42	48	60	66	84	48	54	66	72	48	54	66	84	72	84	
45 deg idlers 0 - 40 lbs/ft	30	42	48	60	72	48	60	72	48	60	72	84	54	66	72	96	96	60	72	84	96	66	72	84	96	96	96	
45 deg idlers 41 - 80 lbs/ft	24	36	42	54	66	36	54	60	42	48	66	72	48	60	72	96	96	54	66	72	96	54	66	72	96	84	96	
45 deg idlers 81 - 120 lbs/ft	NR	30	36	48	54	30	48	54	36	48	60	60	42	54	60	72	84	48	54	60	84	48	60	66	84	72	84	
45 deg idlers over 120 lbs/ft	NR	24	30	42	48	NR	36	48	30	36	54	54	36	42	54	66	72	42	48	54	72	42	54	60	72	72	72	
Minimum Pulley Diameters (in)																												
81 - 100% belt rated tension	14	16	20	26	30	16	20	28	18	22	28	30	20	24	28	36	48	20	24	28	40	20	28	36	48	42	48	
61 - 80% belt rated tension	12	14	18	20	24	14	18	24	16	18	24	24	18	20	24	32	40	18	20	24	32	18	22	30	36	36	42	
Up to 60% belt rated tension	10	12	16	16	20	12	16	20	14	16	20	20	16	18	20	26	32	16	18	20	28	16	18	24	30	30	36	

ELEVATOR BELT SPECIFICS

Maximum Tension Rating (PIW)																											
"Grain, Wood Chip" Service (50 lb/ft)	120	190	280	370	475	210	320	425	260	390	520	645	345	520	690	870	1030	425	645	870	1060	520	765	1030	1275	1275	1700
"Industrial" Service (100 lbs/ft)	100	170	250	330	425	195	290	390	230	350	465	580	310	465	620	775	930	385	580	775	960	465	695	930	1155	1155	1540
Minimum Pulley Diameters (in)																											
81 - 100% belt rated tension	16	16	20	26	30	16	20	26	18	22	28	30	20	24	28	36	48	20	24	28	40	20	28	36	48	42	48
61 - 80% belt rated tension	14	14	18	20	24	14	18	20	16	18	24	24	18	20	24	32	40	18	20	24	32	18	22	30	36	36	42
Up to 60% belt rated tension	12	12	16	16	20	12	16	16	14	16	20	20	16	18	20	26	32	16	18	20	28	16	18	24	30	30	36
Maximum Bucket Projection (in)																											
"Centrifugal" Elevators	6	6	8	10	10	7	9	11	7	10	11	11	10	10	11	12	12	10	11	12	12	10	11	12	12	12	14
"Continuous" Elevators	NR	5	7	10	12	6	8	11	6	9	11	14	9	12	14	16	20	8	14	14	18	8	14	14	18	14	16

PSR SPECIFICATION TABLE - "Metric"

GENERAL DATA

	PSR 80	PSR 110				PSR 125			PSR 150				PSR 200					PSR 250				PSR 300				PSR 500	
Fabric Ply	2-160	2-220	3-330	4-440	5-550	2-250	3-375	4-500	2-300	3-450	4-600	5-750	2-400	3-600	4-800	5-1000	6-1200	2-500	3-750	4-1000	5-1250	2-600	3-900	4-1200	5-1500	3-1500	4-2000
Carcass Style	2	2	3	4	5	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
Number of Plies	2	2	3	4	5	2	3	4	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
Carcass Gauge (mm)	2.8	3.1	4.5	5.5	7.0	3.4	4.8	5.9	3.8	4.6	6.4	8.2	4.7	6.0	8.2	10.4	12.7	5.0	6.5	8.8	11.2	4.6	7.2	9.9	12.5	11.0	14.8
Carcass Weight (kg/m ²)	3.0	3.2	4.7	5.9	7.7	3.5	5.1	6.5	3.8	4.8	6.7	8.6	4.9	6.3	9.0	11.6	14.1	5.1	6.8	9.5	12.3	4.5	7.6	10.7	13.8	10.9	15.1
Elastic Modulus (N/mm)	4550	6125	7875	9625	11375	5250	6125	9625	6475	8225	9975	11725	7700	12600	14350	18375	23100	10850	12600	15750	17150	11025	14700	17500	18900	18900	23450

CONVEYOR BELT SPECIFICS

Max Tension Rating (N/mm)	28	39	58	77	96	44	66	88	53	79	105	131	70	105	140	175	210	88	131	175	219	105	158	210	263	263	350	
Troughing/Empty - Min Belt Width (mm)																												
20 degree idlers	350	400	500	600	750	400	500	750	450	600	750	900	50	700	750	900	1050	600	750	900	1050	700	750	900	1200	1050	1200	
35 degree idlers	450	500	600	750	750	500	600	750	500	750	900	900	600	750	900	1050	1200	750	900	1050	1200	750	900	1050	1400	1200	1400	
45 degree idlers	NR	600	750	900	900	600	750	900	700	900	1050	1050	750	900	1050	1200	1400	900	1050	1200	1400	900	1050	1200	1500	1400	1500	
Load Support - Max Width (mm)																												
20 deg idlers 0-640 kg/m	900	1200	1500	1800	1800	1400	1800	1900	1500	1800	2150	2150	1700	2150	2450	2450	2450	1800	2150	2450	2450	1800	2450	2450	2450	2450	2450	2450
20 deg idlers 641-1280 kg/m	750	1050	1400	1700	1800	1200	1500	1800	1400	1500	2150	2150	1500	1800	2450	2450	2450	1700	1800	2450	2450	1800	2150	2450	2450	2450	2450	
20 deg idlers 1281-1920 kg/m	750	900	1200	1500	1700	1050	1400	1700																				