

# TYPAR English Properties

AASHTO Class M288			-	-	-	-	3	2	2	1	1
			Typar 3151	Typar 3201	Typar 3301	Typar 3341	Typar 3401	Typar 3501	Typar 3601	Typar 3631	Typar 3801
<b>MECHANICAL (MARV)<sup>1</sup></b>											
Grab tensile strength	ASTM D4632	lbs	35	60	120	120	130	160	240	250	300
Grab elongation	ASTM D4632	%	60	60	60	60	60	60	60	60	60
Trapezoidal tear strength	ASTM D4533	lbs	15	25	35	40	60	60	90	90	95
Puncture strength	ASTM D4833	lbs	10	18	25	34	41	56	67	81	93
CBR Puncture	ASTM D6241	lbs	-	-	-	-	225	310	370	435	510
<b>ENDURANCE (MARV)<sup>1</sup></b>											
UV resistance @ 500 hrs	ASTM D4355	%	-	-	-	70	70	70	70	70	70
<b>HYDRAULIC (MARV)<sup>1</sup></b>											
Apparent opening size <sup>2</sup>	ASTM D4751	US Sieve	20/30	30	50	60	70	70	140	140	170
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.5	1.0	0.8	0.7	0.7	0.5	0.1	0.2	0.1
Water flow rate	ASTM D4491	gal/min/ft <sup>2</sup>	235	190	95	85	60	50	15	20	8
<b>PHYSICAL (Typical)</b>											
Unit weight		oz/yd <sup>2</sup>	1.6	1.9	3.0	3.4	4.0	5.0	6.0	6.3	8.0
Roll diameter		in	7	7	8	8	9	10	10	10	12
Length		yd	100	100	100	100	100	100	100	100	100
Width		in	151	151	151	151	151	151	151	151	151
Roll area		yd <sup>2</sup>	419	419	419	419	419	419	419	419	419
Roll weight gross		lbs	50	58	87	97	113	138	165	173	218
Width		in	-	-	-	-	187	187	187	187	187
Roll area		yd <sup>2</sup>	-	-	-	-	519	519	519	519	519
Roll weight gross		lbs	-	-	-	-	142	175	209	219	275

**NOTES:**  
1 Minimum average roll values (MARV) in the weaker principal direction  
2 O<sub>95</sub> Max. ARV

## Product Selection Guide

	3151	3201	3301	3341	3401	3501	3601	3631	3801
Paved roads & parking lots				●	●	●	●	●	
Unpaved roads				●	●	●	●	●	
Industrial yards				●	●	●	●	●	
Subsurface drains		●	●	●	●	●	●	●	
Erosion control				●	●	●	●	●	●
Landfills				●	●	●	●	●	●
Recreational facilities		●	●	●	●	●	●	●	
Waste handling systems	●	●	●	●	●	●	●	●	●
Landscaping		●	●	●	●				

*Typar also has many other unique related applications.*

# TYPAR Metric Properties

AASHTO Class M288			-	-	-	-	3	2	2	1	1
			Typar 3151	Typar 3201	Typar 3301	Typar 3341	Typar 3401	Typar 3501	Typar 3601	Typar 3631	Typar 3801
<b>MECHANICAL (MARV)<sup>1</sup></b>											
Grab tensile strength	ASTM D4632	N	156	267	533	533	578	710	1067	1110	1445
Grab elongation	ASTM D4632	%	60	60	60	60	60	60	60	60	60
Trapezoidal tear strength	ASTM D4533	N	70	110	155	180	270	270	400	400	425
Puncture strength	ASTM D4833	N	45	80	110	150	180	250	300	360	415
CBR Puncture	ASTM D6241	N	-	-	-	-	990	1375	1650	1925	2285
<b>ENDURANCE (MARV)<sup>1</sup></b>											
UV resistance @ 500 hrs	ASTM D4355	%	-	-	-	70	70	70	70	70	70
<b>HYDRAULIC (MARV)<sup>1</sup></b>											
Apparent opening size <sup>2</sup>	ASTM D4751	mm	0.840	0.590	0.300	0.250	0.212	0.200	0.100	0.100	0.090
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.5	1.0	0.8	0.7	0.7	0.5	0.1	0.2	0.1
Water flow rate	ASTM D4491	l/min/m <sup>2</sup>	9635	7790	3895	3485	2460	2050	615	820	328
<b>PHYSICAL (Typical)</b>											
Unit weight		g/m <sup>2</sup>	54	65	104	116	136	170	204	214	272
Roll diameter		mm	180	180	200	200	230	250	250	250	300
Length		m	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
Width		m	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
Roll area		m <sup>2</sup>	350	350	350	350	350	350	350	350	350
Roll weight gross		kg	23	26	40	44	51	63	75	79	100
Width		m	-	-	-	-	4.75	4.75	4.75	4.75	4.75
Roll area		m <sup>2</sup>	-	-	-	-	434	434	434	434	434
Roll weight gross		kg	-	-	-	-	63	78	93	98	124

**NOTES:**  
 1 Minimum average roll values (MARV) in the weaker principal direction  
 2 O<sub>95</sub> Max. ARV

## Product Width Guide

Width (inches)*	3151	3201	3301	3341	3401	3501	3601	3631	3801
36		●	●						
48		●	●		●				
60	●				●				
75		●	●						
108			●						
151	●	●	●	●	●	●	●	●	●
187					●	●	●	●	●

\*Available in other put-ups