

GERUN® Geocomposite

Technical Data Sheet

GERUN® PETB Geocomposite are made of high performance polyester yarns bonded the PET & PP non woven geotextiles, suitable for soil reinforcement separation filtration



PETB Geocomp

Product properties

Product properties														
Physical properties			Unit	PETB 35	PETB 50	PETB 75	PETB 100	PETB 150	PETB 200	PETB 35/35	PETB 50/50	PETB 75/75	PETB 100/100	Test method
Material				PET&PP Nonwoven/ High strength PET yarns										
nonwoven			g/m²	120 &150										
PET yarns properties														
Carboxyl end group(CEG)			mmo/kg	20										
Molecular weight			Mn	39000										
Orientation of reinforcement				monodirectional					bidirectional					
Mechanical properties														
Tensile strength		-MD	KN/m	35	50	75	100	150	200	35	50	75	100	AS 3706.2
		-CD	KN/m	15	15	15	15	15	15	35	50	75	100	
Elongation – MD&CD±2		%		10	10	10	10	10	10	10	10	10		
strength at 5% strain -MD			KN/m	16	28	34	45	68	91	16	28	34	45	
		-CD	KN/m							16	28	34	45	
Partial factor construction damage in clay silt or sand				1.05	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Partial factor environmental effect soil environment,PH<11 at120 years design life				1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Creep limited strength 120 years			KN/m	23	33	49	65	97	129	21	30	45	60	EN ISO 13431
LTD strength 120 years			KN/m	20	29	44	59	88	114	18	26	39	52	
Hydraulic properties														
Water flow rate normal to the plane			mm/s l/m² s	65	65	65	65	65	65	50	50	50	50	ISO 11058
Water flow rate in the plane 20Kpa			10⁷mm/s	30	30	30	30	30	30	30	30	30	30	ISO 12958
			l/mh	11	11	11	11	11	11	11	11	11		
Characteristic opening size O ₉₀			micron	150	150	150	150	150	150	150	150	150	150	
Forms of supply														
Width			m	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	
Roll length			m	100	100	100	100	100	100	100	100	100	100	
20'container capacity-approx.			m²	19080	19080	15900	15900	13250	12500	19080	15900	15900	12500	
40'container capacity -approx.			m²	41340	41340	31800	31800	26500	25000	41340	31800	31800	31800	
40HQ container -approx.			m²	44520	44520	37100	37100	31800	30000	44520	37100	37100	37100	

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