

MACGRID AR®

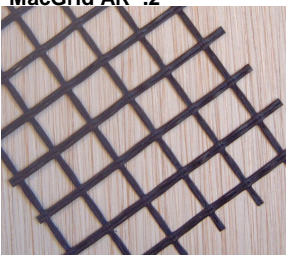
POLYESTER GEOGRIDS & GEOCOMPOSITES FOR ASPHALT REINFORCEMENT APPLICATIONS

Geogrid MACGRID® AR .2 and the geocomposites of the AR G.2 type (geogrid in combination with a nonwoven geotextile) are planar structures consisting of high tenacity polyester yarns arranged in a grid shape with squared polymeric coated mesh, especially developed for asphalt reinforcement application.

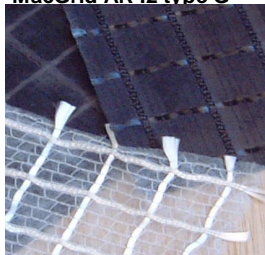
MACGRID AR			5.2	5G.2	10G.2
Mechanical Properties					
Tensile strength - MD	EN ISO 10319	kN/m	60	60	110
Tolerance			-10	-10	-10
Typical strain at max. load - MD	EN ISO 10319	%	10.0	10.0	10.0
Tolerance			± 2.5	± 2.5	± 2.5
Tensile strength at 2% of elongation - MD	EN ISO 10319	kN/m	11.0 (-2)	11.0 (-2)	20 (-2)
Tensile strength at 5% of elongation - MD	EN ISO 10319	kN/m	25.0 (-3)	25.0 (-3)	47 (-5)
Tensile strength - CMD	EN ISO 10319	kN/m	60	60	110
Tolerance			-10	-10	-10
Typical strain at max. load - CMD	EN ISO 10319	%	10.0	10.0	11.0
Tolerance			± 2.5	± 2.5	± 2.5
Tensile strength at 2% of elongation - CMD	EN ISO 10319	kN/m	13.0 (-2.0)	13.0 (-2.0)	22 (-2)
Tensile strength at 5% of elongation - CMD	EN ISO 10319	kN/m	28.0 (-3.0)	28.0 (-3.0)	50 (-3)
Physical Properties - typical values					
Geogrid structure			High tenacity PET		
Coating			Bitumen compatible polymer		
Separation nonwoven geotextile impregnated with bitumen compatible polymer coating			no	yes	yes
Mass per unit	EN ISO 964-1	g/m ²	190	240	390
Mesh opening size		mm	30 x 30	from 15x15 to 40x40	
Roll width		m	from 2.2 to 5.3		
Roll length		m	100	100	100

- MD = longitudinal direction CMD = transversal direction
- MacGrid AR 5.2 is an high tenacity polyester woven geogrid with bituminen compatible polymeric coating.
- MacGrid AR 5G.2 e 10G.2 are geocomposites made with high tenacity polyester woven geogrid and a light nonwoven geotextile (13 gr/m²) impregnated with bitumen compatible polymer.
- The standard width of the roll is 4.4/2.2 and 5.3/2.65 m; other sizes available on request according to stock availability.
- Geocomposite series (AR .2 G types) include more products than the ones reported on this Tecnical Data Sheet. Geocomposites with tensile strength of kN/m 40, 60, 80 and more are available on request; please contact our commercial dept. for further information on the products and on production capability.

MacGrid AR .2



MacGrid AR .2 type G



For the optimisation and improvement process of the technical characteristics of the products, the manufacturer reserves the right to modify the standard characteristics of the product without any notice. The information contained herein are to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from the use of such information nor we do offer any warranty or immunity against patent infringement.

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