MACCAFERRI

TECHNICAL DATA SHEET

Rev-04, Date –10.03.2015

MACGRID® EG

POLYPROPYLENE EXTRUDED BI-AXIAL GEOGRIDS

MACGRID® EG geogrids are high modulus polypropylene geogrids, produced by an extrusion process characterized by a tensile resistance both in the longitudinal and in the transverse direction. They are inert to all chemical existing in natural soils. MACGRID® EG are mainly used for "soil stabilization" and for some kinds of soil reinforcements applications.

MACGRID EG	Test Method	Unit	15S		20S		25S		30S		40S	
Mechanical Properties			MD	TD	MD	TD	MD	TD	MD	TD	MD	TD
Ultimate Tensile Strength	ASTM D6637	kN/m	15	15	20	20	25	25	30	30	40	40
Tensile strength at 2% strain	ASTM D6637	kN/m	5	5	7	7	9	9	10.5	10.5	14	14
Tensile strength at 5% strain	ASTM D6637	kN/m	7	7	14	14	17	17	21	21	28	28
Strain @ ultimate strength	ASTM D6637	%	13	13	13	13	13	13	13	13	13	13
Junction Efficiency	GRI GG2	%	93	93	93	93	93	93	93	93	93	93
Flexural Rigidity	ASTM D1388 (mod)	mg-cm	650,000	-	1,000,000	-	2,000,000	-	3,500,000	-	10,000,000	-
Physical - Chemical Properties												
Structure			Extruded Biaxial									
Polymer			100% stabilized UV polypropylene									
Carbon Black content	ASTM D4218	%	≥ 2									
Colour			Black									
Aperture Dimensions		mm	36	34	36	36	34	34	34	35	32	31
Minimum Rib Thickness	ASTM D1777	mm	0.9	0.7	1.3	1	1.6	1.3	2	1.5	3	2
Roll Length		m	50									
Roll Width		m	3.95									
Roll Weight		kg	39		50		64		72		105	

MD: Machine Direction (longitudinal to roll) TD: Transverse Direction (across the roll)

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