

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 $4 < \text{pH} < 9$. MACGRID® EG are mainly used for "soil stabilization" and for some kinds of soil reinforcements applications.

MACGRID EG	Test Method	Unit	20S		25S		30S	
Mechanical Properties			MD	TD	MD	TD	MD	TD
Ultimate Tensile Strength		kN/m	20	20	25	25	30	30
Tensile strength at 2% strain	ASTM D6637	kN/m	7	7	9	9	10.5	10.5
Tensile strength at 5% strain	ASTM D6637	kN/m	14	14	17	17	21	21
Strain @ ultimate strength	ASTM D6637	%	13	10	13	10	13	10
Junction Efficiency	GRI GG2	%	93	93	93	93	93	93
Flexural Rigidity	ASTM D1388 (mod)	mg-cm	1,000,000	-	2,000,000	-	3,500,000	-

Physical - Chemical Properties								
Structure			Extruded Biaxial					
Polymer			100% stabilized UV polypropylene					
Carbon Black content	ASTM D4218	%	≥ 2					
Colour			Black					
Aperture Dimensions		mm	36	38	38	36	34	36
Minimum Rib Thickness	ASTM D1777	mm	1.4	1	1.8	1.2	2	1.5
Roll Length		m	50					
Roll Width		m	3.95					
Roll Weight		kg	50		64		72	



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

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400 Collier MacMillan Drive, Unit B
Cambridge, ON N1R 7H7
Tel: 519-623-9990
Fax: 519-623-1309

MACCAFERRI CANADA LTD.

email: info@maccaferri.ca
website: www.maccaferri.ca

Halifax, NS tel: 902-468-8615
Montréal, QC tel: 450-420-1845
Edmonton, AB tel: 780-447-2719
Calgary, AB tel: 403-244-6556
Vancouver, BC tel: 604-683-4824