

MACGRID® EG

POLYPROPYLENE BI-AXIAL GEOGRIDS

MacGrid® EG are high modulus polypropylene geogrids, produced by an extrusion process offering tensile resistance both in the longitudinal and in the transverse direction. They are inert to all chemicals existing in natural soils $4 \leq \text{pH} \leq 9$. MacGrid® EG geogrids are mainly used for "soil stabilization" and for some specific soil reinforcement applications.

MacGrid® EG			15S	20S	30S	40S
Mechanical Properties						
Minimum Average Tensile Strength Longitudinal direction	EN ISO 10319 ASTM D 6637	kN/m	15.0	20.0	30.0	40.0
Tensile strength at 2% strain Longitudinal		kN/m	5.0	7.0	10.5	14.0
Tensile strength at 5% strain Longitudinal		kN/m	7.0	14.0	21.0	28.0
Typical strain at M.A.T.S. - Longitudinal		%	13	13	13	13
Minimum Average Tensile Strength Transverse direction		kN/m	15.0	20.0	30.0	40.0
Tensile strength at 2% strain - Transverse		kN/m	5.0	7.0	10.5	14.0
Tensile strength at 5% strain - Transverse		kN/m	7.0	14.0	21.0	28.0
Typical strain at M.A.T.S. - Transverse		%	10	10	10	10
Typical junction strength efficiency Typical value	GRI GG2/GG1	%	95	95	95	95
Physical - Chemical Properties						
Grid Structure			Extruded bi-axial			
Polymer			100% stabilized UV polypropylene			
Carbon Black content		%	≥ 2			
Color			Black			
Mesh Opening size nominal value ⁽¹⁾		mm	38x38	38x38	38x38	38x38
Roll Length		m	50			
Roll Width		m	3.95			



1. The mesh size refers to length x transverse directions. Aperture tolerance $\pm 3\text{mm}$. Larger openings (as 65x65 mm) are available on request, minimum order volumes may apply. E.g. "MacGrid® EG 30S LA"
2. Non-woven geotextiles (100g/m^2 to 300g/m^2) can be bonded to the MacGrid® upon request, minimum order volumes may apply. E.g. "MacGrid® EG 30S LA-G"

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