

Secugrid® 40/40 Q1



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Secugrids are the next generation of geogrids produced with state of the art manufacturing technology, unlike any other geogrid on the marketplace today. The reinforcement element is a highly oriented polypropylene strap that is extruded and drawn to achieve high modulus and strength at low elongations. This is combined with NAUE patented vibratory welding to provide a structurally sound and stable geogrid.

The following table lists properties of the reinforcing element of **Secugrid® 40/40 Q1**

Property	Test Method	Units	md	cmd
Polymer Type Structure pH range			PP welded straps 2-13	
Tensile strength				
Ultimate	ASTM D 6637	kN/m lbs/ft	40 2,740	40 2,740
Elongation @ ultimate*	ASTM D 6637	%	8	8
Strength @1%	ASTM D 6637	kN/m lbs/ft	8 548	8 548
Strength @2%	ASTM D 6637	kN/m lbs/ft	16 1,096	16 1,096
Strength @5%	ASTM D 6637	kN/m lbs/ft	32 2,192	32 2,192
Modulus				
Tensile modulus @ 1%*		kN/m lbs/ft	800 54,800	800 54,800
Geometry* Aperture size*	Micrometer	mm Inches	32 1.26	32 1.26
Structural integrity				
Flexural rigidity*	ASTM D 1388	mg-cm	750,000	750,000
Aperture stability*	Kinney (COE)	kg-cm/deg	13	
Durability				
UV Resistance*	EN ISO 12224	%	95%	
Resistance to Long Term Degradation	EPA 9090 Immersion Testing		100%	100%
Roll Properties				
Roll Dimensions*		meters / ft	4.75 x 100 / 15.58 x 328	
Roll Area*		sq. mtrs / sq. yds	475 / 568	

MARV values shown unless otherwise indicated

* Nominal value

The above mentioned technical values are average values over the roll width. These data are guiding values achieved in our laboratories and/or independent testing institutes. Our products can be subject to changes without prior notice.

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