

Geocell Ground Grid Technical Specifications

Parameter	Standard Values	Test Method	Remarks
Material	High-Density Polyethylene (HDPE)	ASTM D883	UV-stabilized with 2.5% carbon black
Cell Depth	50mm / 75mm / 100mm / 150mm / 200mm	ASTM D4439	Custom depths available
Expanded Cell Size	210mm / 250mm / 330mm / 400mm	ISO 13426-1	Hexagonal pattern
Sheet Thickness	1.0mm - 2.5mm (±0.1mm)	ASTM D5199	Varies by product grade
Tensile Strength (MD)	≥23 MPa	ASTM D6693	Machine direction
Tensile Strength (XD)	≥21 MPa	ASTM D6693	Cross direction
Welding Peel Strength	≥100 N/cm	ISO 13426-2	Seam integrity test
Operating Temperature	-60°C to +80°C	ASTM D6992	No brittleness at low temps
Carbon Black Content	2.0% - 3.0%	ASTM D4218	UV protection
Permeability	≥92% open area	ASTM D4491	Allows vegetation growth
Chemical Resistance	pH 2-13	ASTM D5322	Resistant to salt/acid/alkali
Roll Dimensions	4m×2.5m / 5m×3m / Custom	-	Pre-expanded or flat-packed
Color Options	Black / Green / Custom	-	RAL color matching available