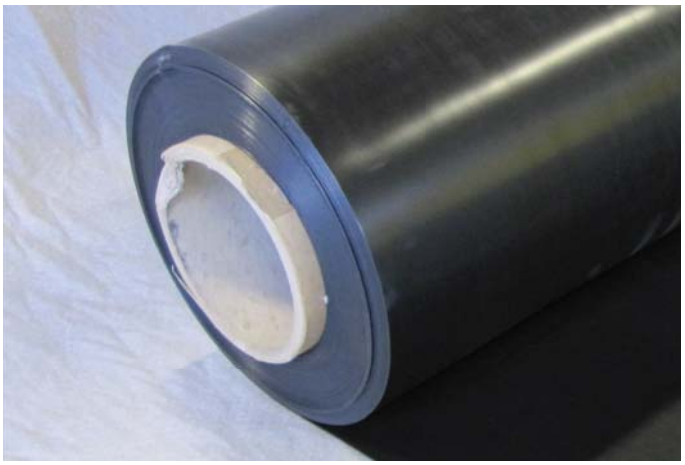
CARLISLE SYNTEC SYSTEMS

GeoTough™ PP
Geosynthetic Flashing



Overview

Carlisle's GeoTough PP Geosynthetic Flashing is a 40-mil or 60-mil thermoplastic polypropylene-based membrane available in 12" by 100' rolls. When the use of prefabricated accessories is not possible, this product can be used to field-fabricate inside and outside corners, pipe flashings and sealant pockets. Standard colors are white, black, and tan.

Features and Benefits

- New and improved Geosynthetic Flashing provides 35% more flexibility, making it easier to field-fabricate details
- Excellent weldability allows for consistent, high-quality seams in penetrations and other critical roof areas

Installation

1. Geosynthetic Flashing is used to flash various lining system structures and penetrations. The specific installation method will vary based on the situation.
2. Typically, a setting of "6" on a scale of "10" is appropriate for welding Geosynthetic Flashing.
3. Use the edge of the roller to crease the flashing into any membrane step-offs for a proper seal.

Review Carlisle specifications and details for complete installation information.

Precautions

- Review the applicable Safety Data Sheet for complete safety information prior to use.
- Sunglasses that filter out ultraviolet light are strongly recommended, as tan and white polypropylene surfaces are highly reflective.
- Store Geosynthetic Flashing in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. Geosynthetic Flashing that has been exposed to the weather for approximately 7 days or longer must be prepared with Weathered Membrane Cleaner prior to hot-air welding.

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Typical Properties and Characteristics

Physical Property	Test Method	Property Of Unaged Sheet	Property After Aging 30 days @ 185°F
Tolerance on nominal thickness, %	ASTM D5199	± 10	
Mass per unit area, lb/ft² (g/ft²) (kg/m²)	ASTM D5261	40-mil = 0.21 (95) (1.03) typical 60-mil = 0.30 (136) (1.46) typical	
Tensile Strength, lbf/in. (kN/m) (reported in lbf per inch of width)	ASTM D638 or D6693 Dumbell IV	72 (12.6) min. 110 (19.3) typical	72 (12.6) min. 110 (19.3) typical
Tensile elongation, % (strain at rupture)	ASTM D638 or D6693 Dumbell IV	700 min. 800 typical	700 min. 800 typical
Tear Resistance, lbf (N)	ASTM D1004 (max. load) Die C	12 (53.3) min. 15 (66.7) typical	12 (53.3) min. 15 (66.7) typical
Low Temperature Flexibility, °F (°C)	ASTM D2136 ⅛ in. mandrel, 4 hour @ temp.	-40 (-40) max. -50 (-46) typical	
Linear Dimensional change (shrinkage), %	ASTM D1204		± 1.0 max. -0.5 typical
Ozone Resistance, 100 pphm, 168 hours	ASTM D1149	No Cracks	No Cracks
Resistance to water (distilled) absorption After 30 days immersion 122°F (50°C) Change in mass, %	ASTM D471	1.0 max. 0.5 typical	
Field seam strength, lbf/in. (kN/m) Seam tested in peel after weld	ASTM D4437 1" wide	Cannot separate weld (breaks outside weld)	
Water vapor permeance, Perms	ASTM E96	0.10 max. 0.05 typical	
Puncture resistance, lbf (N) 40-mil 60-mil	ASTM D4833 (index puncture)	30 (133) min. 45 (200) typical 55 (245) typical	30 (133) min. 45 (200) typical 55 (245) typical
Elongation, ultimate, min., %	D 412	500	
Resistance to xenon-arc weathering[1] Xenon-Arc, 15,120 kJ/m² total radiant exposure, visual condition at 10X	ASTM G155 0.70 W/m² 80°C B.P.T.	No cracks No loss of tensile strength	

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

[1] Approximately equivalent to 12,000 hours exposure at 0.35 W/m² irradiance. B.P.T. is black panel temperature.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Senatobia, MS
Solar Reflectance Index (SRI)	N/A

Specifications

Thickness	40-mil, 60-mil
Standard Width	12"
Standard Length	100'
Typical Weight	40 mil = 0.21 lb/ft² (1.03 kg/m²) 60 mil = 0.30 lb/ft² (1.46 kg/m²)
Color	Black, white, tan

800-479-6832 | P.O. Box 7000 | Carlisle, PA 17013 | Fax: 717-245-7053 | **www.carlislesyntec.com**