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Brand

# Scapa Polyflex<sup>®</sup> Polyethylene (PE) Tapes

High performance for demanding applications.



# Trust The Market Leader in PE Tape Manufacturing

## Why Use Scapa Polyflex® Polyethylene Tapes?

We have extensive experience in supplying the global construction and specialty market segments with the Polyflex® range. By using Polyflex® tapes, you will have full confidence that you are supported by the market leader in this field, for both production and performance excellence.

At our manufacturing facility in Renfrew, Ontario, Canada, we've established a global center of excellence with unrivaled technical capabilities for PE tape manufacture, including the proprietary in-house extrusion of polyethylene.

With over 35 years of manufacturing expertise in PE tape product, our Renfrew site is ISO 9001 and IATF 16949 certified to ensure rigorous quality processes. We have the expertise to customize products to your own packaging and dimension requirements. This means we can offer you proven flexibility, along with sustainable high-quality products and excellent service and delivery.

With internal R&D expertise to create our own adhesive formulations, our range leads the way in both breadth and quality consistency.

PE tapes are the optimal solution for a host of critical joining, wrapping, and protection applications within the environmental and safety, automotive, and marine markets. Scapa's products have proven expertise in these areas and encompass standard market favorites, as well as specialist technical products.

# Try the Scapa Polyflex® Range of PE Tapes

Our Scapa Polyflex® range performs to the highest level and is manufactured to consistently high quality standards. Whatever your requirement, from abrasion resistance and durability to reliable bonding to a particular surface, our Scapa Polyflex® portfolio has it covered.

The Scapa Polyflex® range includes options on thickness, adhesion levels, and strength to enable you

to match the right products to your own performance criteria. We also have a range of more specialized products that include performance attributes from UV resistance to fire retardancy.

Furthermore, our most popular grades are now accredited to meet the FR requirements of both NFPA 701 and ASTM E84, giving you an additional valued end user benefit.

You can also choose from a wide range of widths, packaging types, and colors to cater for specific branding and application needs. In addition, you have the added option of either straight or serrated edge, depending on your personal choice or application preference.

Whether your application is in splicing, industrial masking, surface protection, repair, or cocooning, Polyflex® products have been used

consistently and successfully across many North American markets. They also satisfy the most demanding environmental and technical performance requirements. With many decades of experience in the manufacture of quality PE tapes, Scapa offer an unrivaled range of high performing adhesive solutions for both distributors and end users.



Use a straight edge for a clean and straight line in masking applications

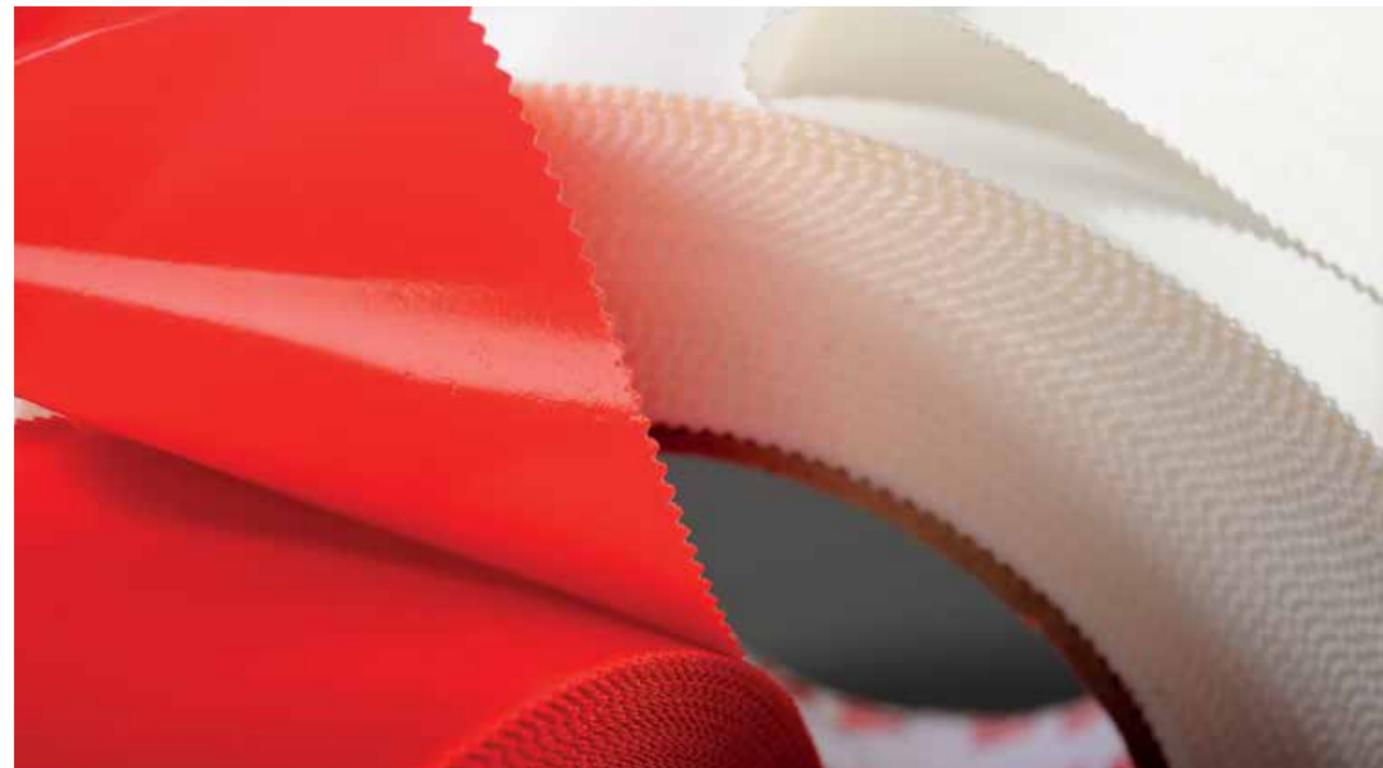


Use a serrated edge for that easier tear when the situation demands

# Benefits of PE Tapes

PE tapes are a highly-effective alternative to cloth tapes as they offer a premium performance solution, particularly in harsh conditions and low temperature environments. These specialized adhesive tapes combine a multitude of performance characteristics including abrasion resistance, excellent adhesion (particularly to PE), good strength and reliable bonding to a wide range of surfaces and substrates. Many PE tapes also offer the advantage of a clean peel and additional characteristics such as UV performance or fire retardancy.

KEY FEATURES AND BENEFITS	
<ul style="list-style-type: none"> <li>A range of adhesion levels, from low tack to aggressive, for superior bonding and heavy duty surface protection</li> <li>Immediate and long-term adhesion to a wide range of surfaces and substrates, particularly PE sheeting UV resistant options are ideal for external environments such as construction sites and other high UV exposure applications</li> <li>Flame retardancy on key grades, for improved safety performance in critical projects</li> </ul>	<ul style="list-style-type: none"> <li>A water-tight seal provides humidity resistance in all weather and climate conditions</li> <li>Premium rubber-based adhesive formulation allows clean peel of tape with no messy adhesive residue, even after long periods</li> <li>Excellent tensile strength and product flexibility for rough surfaces, awkwardly shaped objects, and angles</li> <li>Available in a wide range of colors and sizes for greater flexibility</li> </ul>



# Scapa Polyflex® Range: A Technical Overview

Product code	Description	Total thickness mils	Peel adhesion oz/inch	Adhesion to backing oz/inch	Tensile strength lbs/inch	Operating temperature °F	Elongation %
 <b>SCAPA POLYFLEX® PE RANGE - MULTI</b> Use MULTI products when you are looking for good value, basic grades for all purpose applications, and good all-round technical properties							
130	Single coated PE Tape for surface protection applications	7	20	14	24	32 - 160	80
135	Thinner, single coated PE tape for a wide range of applications	7	60	35	18	32 - 160	80
 <b>SCAPA POLYFLEX® PE RANGE - PRO</b> Use PRO products when you want professional grade, quality performance in a range of thicknesses to suit different application needs							
131	Single coated PE Tape in silver to replace duct tape	7.5	75	35	24	32 - 160	70
131R	Thicker, single coated PE Tape in silver to replace duct tape	9	85	40	22	32 - 160	100
133	Scapa's benchmark single coated PE Tape for construction and industrial assembly	7.5	75	35	24	32 - 160	70
136	Heavy duty single coated PE Tape for higher durability and adhesion	9	85	40	22	32 - 160	100
137	Professional grade single coated PE Tape with very high adhesion	9	140	55	22	32 - 160	100
180	Clear, single coated PE Tape for easy and invisible repairs	7.5	75	35	24	32 - 160	70
139	Single sided PE Tape with natural rubber adhesive system for application over a wider range of surfaces	7.5	40	35	21	32 - 160	100
 <b>SCAPA POLYFLEX® PE RANGE - PLUS</b> Use PLUS products when you are looking for additional features and benefits for more demanding applications							
234	UV resistant single sided PE Tape for demanding external applications	7	75	32	22	32 - 160	90
134	Premium heavy duty single sided PE Tape with excellent short-term UV resistance	9	85	35	22	32 - 160	100
UVX10	Premium high tack acrylic adhesive PE Tape with up to 6 months UV protection. Ideal for specialist, external, temporary protection applications	5.3	25	-	11	-5 - 160	400

# Better Than Duct Tape

ADVANTAGES OVER DUCT TAPE	
1	When bonding to polyethylene sheeting, PE tape will always give a much better bond than traditional cloth duct tapes because it's bonding two similar materials. PE tape is good on rough surfaces too!
2	In winter months and cold temperature environments, PE tape retains its bond due to its softer synthetic rubber adhesive.
3	The serrated edge option on the Scapa PE tape range offers clean and straight tearing by hand, with no loose threads or jagged edges.
4	Cloth duct tapes are generally waterproof but only to a certain level, and can still let moisture in if not applied correctly. PE tapes offer both conformability and a complete waterproof solution.
5	PE tapes will peel away cleanly after many weeks of application, unlike cloth duct tapes which leave adhesive residue after the product is removed.
6	Despite being used in outdoor applications, cloth duct tape products are rarely equipped to cope with the direct sun and heat they are exposed to. Scapa's PE tape range includes products with added UV protection for extra security.
7	Due to the superior performance of PE tape, a lower 7 mil thickness can directly compete against a higher 9 mil thick duct tape, further reducing price differentials. Instead of offering a product that is just "fit for use" at an economy price, you can offer a premium product option that will delight users when tried in application. NEW - Scapa Polyflex® grades now come with built in FR properties for use with FR poly sheeting.



# The Features and Benefits of the Polyflex® Range:

	130	135	133	136	137	131	131R	180	139	234	134	UVX10
Product category	PE											
Backing	PE											
Adhesive type	Synthetic rubber								Natural rubber	Synthetic rubber		
Thickness mils	7	7	7.5	9	9	7.5	9	7.5	7.5	7	9	5.3
Adhesive thickness mils	2.5	2.5	3	3.5	4	3	3.5	3	3	2.5	3.5	1.34
Initial tack level	***		****	*****	*****	***	****	***	**	***	****	***
Standard color range (other colors available on request)	○/○	●/○	●/○	●/○	●/○	●/○	●/○	○	●/○	●/○	●/○	●/○
Adhesion to PE sheeting	*	***	****	*****	*****	***	****		***		****	-
Clean removal - short-term	****			***	****	****	****	****	**		****	
UV resistance	**					**			***	****	*****	
Conformability	****								***	****		
Bonding to a wide range of substrates	**	***		****		***		****	****	***		
Heat shrink properties	*	**	***		**	***		***	**	****		-
Flame retardancy	*	****					**		****	****	*	
Water vapor resistance	***	**	***	****	****	***	****	***	***	**	****	-
Low temperature performance	***	**	***	****	****	***		***		****	***	
Strength and durability	**	**	***	****	****	**	****	***	***	**	****	***
Low VOC (contains no heavy metals)	****											
REACH compliant	****											

NOTE: Scapa 133, 136, 137, 234, and 134 are NFPA 701 and ASTM E84 (comparable to UL 723) certified.

Performance level 1 to 5

● Black   ○ White   ● Red   ● Blue   ● Orange   ○ Clear   ● Silver

# Key Markets Overview



## Safety and environmental

PE tapes are used extensively in abatement, providing superior contact to uneven surfaces and difficult substrates like PE. They exceed expectations with their smooth surface, low stretch, and easy-tear properties.

## Stucco and heavy-duty masking

Stucco construction applications need consistently high performing tapes to withstand the rigors and use conditions demanded by equipment, trim work, and surface protection applications.



## Industrial wrapping and cocooning

PE tapes protect from dust, dirt, and harsh natural elements that can affect wrapped and cocooned areas. Industrial operations also rely on UV resistant, premium Scapa PE tapes for masking large areas in all weather conditions.

## Disaster recovery and restoration

Our extensive range of PE tapes are ideal for disaster recovery, restoration, and abatement and are specially designed to cope with the specific demands of the application.

Polyethylene (PE) tape can also be used in a variety of additional markets where the strength and flexibility of this range make it ideal. These include automotive, flooring, agriculture, vapor barrier, and general construction and assembly.

# Find the Right Product for Every Application

PE tape is used in a variety of sub-markets where the strength and flexibility of this range can be used in exacting applications across key markets. Below is a guide to some of the core applications that our product range is used for around the globe.

												
Product category	130	135	133	136	137	131	131R	180	139	234	134	UVX10
Abatement/disaster recovery sealing and protection		✓	✓	✓	✓	✓	✓	✓				
External stucco masking and protection										✓	✓	✓
General purpose sealing, bundling, repair, and wrapping	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Agricultural/greenhouse repair and masking		✓	✓	✓	✓			✓	✓	✓	✓	
Wire harnessing and identification		✓										
Flooring and marking	✓		✓									
Marine cocooning and shrink wrapping				✓	✓					✓	✓	
Large area masking/scaffolding			✓	✓	✓					✓	✓	
Premium masking of rough surfaces	✓											✓
Surface protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wrapping and sealing of FR poly sheeting			✓	✓						✓	✓	

# Case Studies



## Industrial Wrapping

Large area masking requires absolute product confidence that the sheeting and masking will withstand harsh environments, temperatures, and humidity, as an adhesive failure would be time consuming and costly to repair. Having trialed a number of potential tapes, our customer focused on Scapa Polyflex® 234 and 134 for their levels of UV protection and additional durability. The product was also further tested for use over longer periods of time and even allowed contractors to add in repairs and zips to access areas of the sheet wrapping. In addition, these products now have in-built FR properties for even greater protection.



## FR construction

With a lack of clarity in adhesive tape fire regulations in some markets, our distributor challenged the tape expectations for bonding and splicing fire retardant PE sheeting in a public safety construction project. Despite PE sheeting needing to meet fire safety standards, adoption of a fire retardant tape was limited, leaving a critical flaw in the overall fire safety effectiveness. Our distributor worked to raise expectations so their customer could use Scapa Polyflex® 133, Scapa's superior NFPA related PE product. This ensured they did all they could to create a safe construction.



## Abatement

Facing a crowded market with intense price pressure, our customer introduced Scapa Polyflex® 133 PE tape for abatement applications. With a long history of relying on cloth duct tape products, confidence in the tape was safety critical in these applications. After extensive sampling, end users found that the superior adhesive contact to PE sheeting exceeded expectations. The clean peel, low stretch, and easy tear enabled the distributor to promote the product as a viable alternative to duct tape. And now, Scapa Polyflex® 131 is available in silver and black to match the duct tape appearance!

# Understanding Fire Standards

It is easy to be confused by the multitude of terms used in fire safety, a problem that's not helped by the lack of clarity in North America. Different markets and U.S. states sometimes have their own differing views on what is acceptable for specific situations and materials.

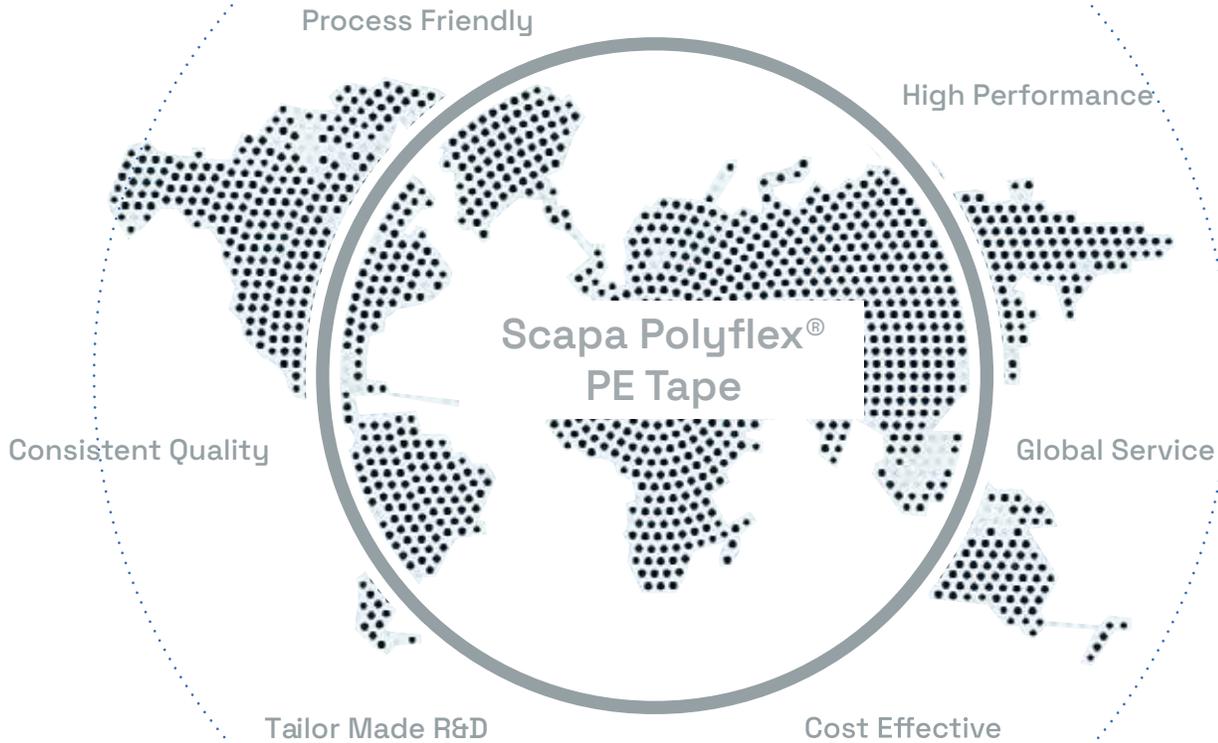
With this in mind, Scapa Polyflex® key grades have been updated to include as standard FR accreditation to two standards used extensively in the North American market. The first, NFPA 701, is a test for the flame propagation of textiles and films. It uses

a specific lab-based test to examine different characteristics like burn distance, burn rate, dripping rates, and smoke development. In addition, Scapa Polyflex® products have been tested to a specific tape standard, ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials. This is more specific to the construction industry and includes a different lab based test method that is also comparable to UL 723 standard. It is also worth noting that fire retardancy is quite different from fire resistance.



# Global Solutions

## Global Perspective



## Local Service

For additional information, please contact your Sales Manager or Scapa Customer Care

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