

Premium 37



Professional Grade Vinyl Electrical Tape

Technical Data Sheet

April 2017

Description and Features	 A 0,18 mm (7 mil) all weather, professional grade, pressure sensitive vinyl tape whand gives excellent performance over a wide range of temperatures. Cold and weather retardant. Premium 111 can be used as primary insulation for splices up to protective outer jacket over splices and for all low temperature applications. Cold and weather resistant Flame retardant High dielectric strength Highly conformable High UV resistance High resistant to sun, water, oil, acids, alkalis, corrosive chemicals. Meets ASTM D-3005, Type I; EN 60454-3-1, Type 11; UL 510; CSA C 2 RoHS Directive 					
Materials	Backing PVC	Adhesive Rubber based	Colour Red, White, Blue, Yellow, Orange, Violet, Brown, Gray, Green	ge, Other Sizes available upon r		
Technical Properties	Characteris	tic	Specification	Typical Value	Test Method	
· · · · · · · · · · · · · · · · · · ·	Thickness, (mm)		0,18±0,025	0,175	ASTM D 1000	
	Breaking strength (N/cm)		26 min	30	ASTM D 1000	
	Elongation at break (%)		220 min	260	ASTM D 1000	
	Adhesion to steel (N/cm)		1,8 min	2,2	ASTM D 1000	
	Adhesion to backing (N/cm)		1,8 min	2,2	ASTM D 1000	
	Flammability (seconds)		4 max	Ó	ASTM D 1000	
	Flagging (mm)		3 max	0	ASTM D 1000	
	Temperature Rating (°C)					
	Maximum			80	UL510	
				105	CSA C 22.2 no.197	
	Minimum			-10	UL510 CSA C 22.2 no 197	
		4 4 1 1 1		-18	ASTM D 1000	
	Dielectric Strength (kV)		7	0	ASTM D 1000 ASTM D 1000	
	-Standaro -Wet	1	7 min 90%	8 7,2	ASTM D 1000	
	Dielectric C	onstant	90%	7,2 3,2	ASTM D 150	
				1x10 ⁶	ASTM D 1000	
Recommended Uses	Insulation Resistance (MΩ) 1x10° ASTMD 1000 Used for general splicing purposes. Can be used as primary insulation for splices up to 600 Volts Provide a protective outer jacket over splices for all low temperature applications. Can be used for wrapping wire harnesses, and insulating degaussing coils.					
Storage	In original pac and 50-80% R		rizontal position under c	over and temperatu	Ire between 5-35 °C	
Shelf Life	60 months from	m date of manufactu	re.			

LIMITED WARRANTY: Plymouth warrants that its Product will substantially conform to that products written specifications for a period of one (1) year from the date of shipment, (Unless provided otherwise). Plymouth makes no warranty to the distributor, its customers, or the product's end user for the products merchantability and/or suitability for his/its intended use or purpose, and buyer shall assume all risks associated therewith. Provided that the product is proved to be defective within the terms described above, and provided buyer shall have first compiled with all return policies of Plymouth, PLYMOUTH'S SOLE OBLIGATION AND BUYER'S EXCLUSIVE REMEDY UNDER THIS PRODUCT WARRANTY SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT AS IS PROVED TO BE DEFECTIVE WITHIN THE TIME PERIOD SPECIFIED ABOVE. EXCEPT AS EXPRESSLY SET FORTH HEREIN, PLYMOUTH MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. In no event shall Plymouth be liable for collateral, consequential, indirect or incidental damages arising out of, or connected in any way with the supply of products. (Rev. 2/15)

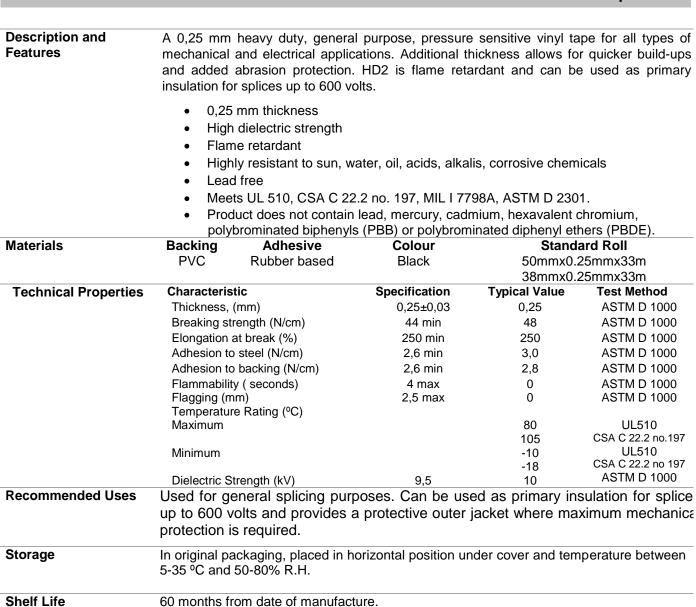
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Technical Data Sheet

HD2

Heavy Duty Vinyl Electrical Tape



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April 2017



PLYFILL[®]

Technical Data Sheet



Electrical Filler Insulating Mastic

April 2017

Description and Features	PLYFILL® is a 3,2 mm self-amalgamating mastic for insulating and sealing all types of overhead and direct buried electrical connections up to 600 volts. PLYFILL® has superior adhesion to metals, cable insulations and jackets. It will have no adverse effects on polymeric conducting shields. PLYFILL® provides an excellent water seal for duct work, cable ends and all types of splices. PLYFILL® is normally over wrapped with vinyl tape.					
	ExcellResist	ent thermal stability. tant to water, salt wa	ter, soil and corros	insulations and jacket ive chemicals. polymeric conductive s		
Materials	Backing	Adhesive Mastic	Colour Black	Standard Sizes Widths Lengths 38 mm x 1,5 m other sizes are available upon request		
Technical Properties	Continuo	nm) mperature (ºC)		Typical Value 3,2 90 130	<u> </u>	

	Operating temperature (°C)		
	Continuous ¹	90	ASTM D 4325
	Emergency overload	130	ASTM D 4325
	Water absorption (%)	0,10	ASTM D 570
	Copper corrosion (visual)	None	ASTM D 69
	Ozone resistance (visual)	Pass	ASTM D 4325
	Dielectric strength ² (kV/mm)	20	ASTM D 4325
	Dielectric constant	3,2	ASTM D 4325
	Dissipation factor	0,025	ASTM D 4325
	Volume resistivity (Ω.cm)	3x10 ¹⁴	ASTM D 4325
Recommended Uses	For encapsulating and protecting all types of lo connections, duct seals and cable ends seals.	ow voltage connection and	devices, overhead

Storage	In original packaging, placed in horizontal position under cover and temperature between 5-35 °C
Shelf Life	60 months from date of manufacture.

Information provided is for reference only. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use

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Premium 111



Professional Grade Vinyl Electrical Tape

Technical Data Sheet

April 2017

Description and A 0,18 mm (7 mil) all weather, professional grade, pressure so and gives excellent performance over a wide range of temp Flame retardant. Premium 111 can be used as primary insulat protective outer jacket over splices and for all low temperature Cold and weather resistant • Flame retardant. • Flame retardant • High dielectric strength • Highly conformable • High resistant to sun, water, oil, acids, alkalis, corrosi • Meets ASTM D-3005, Type I; EN 60454-3-1, Type 1					nd weather resistant. o to 600 Volts. Use as
		S Directive			
Materials	Pb, C Backing PVC	d, Hg, Cr (VI) free Adhesive Rubber based	Colour Black	19mmx0,	ard Roll 18mmx20 m ilable upon request
Technical Properties	Characteristic		Specification	Typical Value	Test Method
	Thickness, (mm)		0,18±0,025	0,175	ASTM D 1000
	Breaking strength (N/cm)		26 min	30	ASTM D 1000
	Elongation at break (%)		220 min	260	ASTM D 1000
	Adhesion to steel (N/cm)		1,8 min	2,2	ASTM D 1000
	Adhesion to backing (N/cm)		1,8 min	2,2	ASTM D 1000
	Flammability (seconds)		4 max	0	ASTM D 1000
	Flagging (mm)		3 max	0	ASTM D 1000
	Temperature Rating (°C)				
	Maximum			80	UL510
	• • •			105	CSA C 22.2 no.197
	Minimum			-10	UL510 CSA C 22.2 no 197
	Dioloctrio St	rongth (k)		-18	ASTM D 1000
	Dielectric St Standard-		7 min	8	ASTM D 1000
	-Wet		90%	7,2	ASTM D 1000
	Dielectric Co	onstant	3070	3,2	ASTM D 150
	-	esistance (MΩ)		1x10 ⁶	ASTM D 1000
Recommended Uses	Used for general splicing purposes. Can be used as primary insulation for splices up to 600 Volts Provide a protective outer jacket over splices for all low temperature applications. Can be used for wrapping wire harnesses, and insulating degaussing coils.				
Storage		kaging, placed in hori	izontal position under		ure between 5-35 °C
Shelf Life	60 months from	n date of manufacture) .		

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W963 PLYSAFE®

EPR High Voltage Tape

Technical Data Sheet



Description and Features	 W963 Plysafe[®] is a 30 mil (0,76m tape for insulating and jacketing yielding a void-free, electrically state 553C/Grade A, MIL-I3825B. Self amalgamating Outstanding corona and or UV resistance Excellent moisture, corrosi Resistant to animal and silicone oils. 	splices though 69kV. ble build-up and is ideal zone resistance on and chemical resista	W963 Plysafe [®] an for water-proofing. A ance	nalgamates quickly, STM-D-4388, HH-I-
Materials	Backing Adhesive	Colour	Standa	ard Roll
	EPR Black Rubber			
Technical Properties	Characteristic		Typical Value	Test Method
· · · · · · · · · · · · · · · · · · ·	Thickness, (mm)		0,76	ASTM D 4325
	Breaking strength (MPa)		2,3 min.	ASTM D 412
	Elongation at break (%)	950 min.	ASTM D 4325	
	Fusion (mm)		2 Max	ASTM D 4325
	Heat Resistance (°C)		130	ASTM D 4325
	Continuous Operating Temp.(°C)		90	ASTM D 4325
	Emergency Overload (°C)		130	ASTM D 4325
	Water Absorption (%)		0,06	ASTM D 570
	Ozone Resistance		Pass	ASTM D 4325
	UV Resistance		Pass	ASTM D 4325
	Dielectric Strength (kV/mm)		39,5	ASTM D 149
	Dissapation Factor			
	24h @ 23°C		0,005	ASTM D 4325
	168h @ 70ºC		0,015	ASTM D 4325
	Dielectric Constant:			
	24h @ 23°C		2,7	ASTM D 4325
	168h @ 70ºC		2,9	ASTM D 4325
	Volume Resistivity (Ω.cm)			
	96h @ 23ºC and 50% RH		1x10 ¹⁶	ASTM D 257
	96h @ 23ºC and 96% RH		1x 10 ¹³	ASTM D 257
Recommended Uses	For insulating and jacketing of splid building stress cones and for jac Provides a moisture seal for a components. Due to its highly stat	keting of terminations II water-proofing nee	on power cable th ds and insulations	rough 35000 volts. and protects bus
	for cable jacket repair and restoration			-
Storage	In original packaging, placed in horizontal position under cover and temperature between 5-35 °C.			
Shelf Life	60 months from date of manufactur	e.		

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April 2017



Rubber Mastic (RM)

Self-Bonding Mastic Tape

Technical Data Sheet

May 2020

Description and Features	 Rubber mastic is a self-bonding mastic tape consisting of an ethylene propylene rubber (EPR) backing, bonded to a tacky temperature stable, electrical grade mastic. Use for insulating and moisture sealing splices and terminations on solid dielectric cable. Provides excellent electrical properties, superior adhesion, moisture and chemical resistance. For primary insulation up to 35kV, as indicated in drawing BBI-1. Excellent electrical properties Superior adhesion UV resistant. Moisture, corrosion, and chemical resistant Suitable for direct burial and overhead applications 					
Materials	Backing Adhesive Color		Standa	rd Sizes		
	EPR	Mastic	Black		Ith x Length	
				38 mm x 3 m (1,5̈́ x 10') 51 mm x 3 m (2,0" x 10')		
Technical Properties	Characteris	tio			able upon request Test Method	
				Typical Value	ASTM D 4325	
	Thickness (mm) Elongation (%)			1,65 890	ASTM D 4325 ASTM D 412	
	Operating temperature:			090	A3110 D 412	
	Continuous (°C)			90	ASTM D 4325	
	Emergency overload (°C)			130	ASTM D 4325	
	Water absorption (%)			0,10	ASTM D 570	
	Copper corrosion (visual)			None	ASTM D 69	
	Ozone resistance (visual)			Pass	ASTM D 4325	
	UV Resistance			Pass	ASTM D 4325	
	Dielectric strength (kV/mm)			20	ASTM D 149	
	Dielectric constant			3,2	ASTM D 150	
	Dissipation factor			0,025	ASTM D 150	
	Volume resis			1x10 ¹⁵	ASTM D 257	
	Insulation Re	esistance (MΩ)		>1x10 ⁶	ASTM D 257	
Recommended Uses	Use for insulating and moisture-sealing splices and terminations on solid dielectric cable. Can wrapped, stretched or molded around irregular shapes for insulation build up, water sealing surface protection. Ideal for Bus Bar insulation and corrosion protection.					
Storage	In original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C.					
Shelf Life	60 months from date of manufacture.					

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77 PLYGLAS®

Glass Cloth Tape

Technical Data Sheet

Description and

Features

77 PLYGLAS[®] is a woven glass fabric tape with a thermosetting rubber based pressure-sensitive adhesive. It has high tensile strength, and provides excellent tear and abrasion resistance with a service temperature rating of 130 °C.

- High temperature resistant
- Service temperature of 130 °C
- High mechanical strength
- Thermosetting adhesive
- Abrasion resistant.

Materials	Backing	Adhesive	Color		tard Size x Length
	Glass Rubber based cloth		White		n (0.75 in. x 66 ft.) ailable upon request
Technical Properties	Characteristic	;	Typical V	/alue	Test Method
	Thickness (mr	n)	0,18		ASTM D-1000
	Tensile strength (N/cm)		300		ASTM D-1000
	Elongation at break (%)		5		ASTM D-1000
	Adhesion to Steel (N/cm)		1,7		ASTM D-1000
	Dielectric breakdown (kV)		2,5		ASTM D-1000
	Insulation resistance (MOhm)		5000		ASTM D-1000
Recommended Uses	thru 600 vo	ng and protecting hig Its. Securing 53 Plya ratures is required. B	irc, Arc and Fire P	Proofing Tape, w	here adhesion a

Storage	In original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C.
Shelf Life	36 months from date of manufacture.

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October 2017



Plymouth Rubber Europa, S.A.

TECHNICAL DATA SHEET

ADHESIVE TAPE N-15

MATERIALS

Backing (base) material	Plasticized PVC film
Colours	Black, White, Grey, Red, Yellow, Brown, Green, Blue

DESCRIPTION AND FEATURES

• Tape with good adhesion level and mechanical resistance.

- Meets the requirements of 2000/53/EC and RoHS 2011/65/UE Directives. Product does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).
- Meets EN 60454-3-1

TECHNICAL PROPERTIES

CHARACTERISTIC	TEST METHOD	SPECIFICATION	TYPICAL VALUE
Thickness (mm)	ASTM D 1000	$0,18\pm0,025$	0,17
Width (mm)	33	Nominal \pm 1	
Adhesion to steel (N/cm)	33	Minimum 1,8	2,8
Adhesion to backing (N/cm)	33	Minimum 1,8	2,6
Breaking strength (N/cm)	33	Minimum 30	33
Elongation at break (%)	33	Minimum 170	220
Flammability	33	Self-extinguishing	Self-extinguishing
Dielectric breakdown (kV)	EN 60454-2	Minimum 7	8
Temperature rating (°C)	3000 Hours	105	Conforms

FORM OF DELIVERY

Standard sizes: Length, 20 and 33 m Width, 19 and 25 mm Core diameter, 38 mm

Other sizes are available upon request.

Revised May 2013

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