



R100-HD

Heavy Duty Vinyl Electrical Tape

Technical Data Sheet

June 2024

Description and Features

Plymouth R100-HD Heavy Duty Electrical Tape is a 0,25 mm premium quality pressure sensitive vinyl insulating tape. A perfect balanced combination of a flexible PVC film with a very special formulated rubber-based adhesive which confers superior adhesion and conformability in ambient temperatures up to 80°C being also a perfect tape solution for cold weather applications up to -10°C.

Plymouth R100-HD tape is high resistant to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions, being really operative in medium cold and hot weather areas due to its equilibrated mechanical properties. **Plymouth R100-HD** gives complete environmental, electrical and mechanical protection and resistance over a wide range of applications.

Excellent performance and high durability makes **Plymouth R100-HD** ideal to be used in indoor and outdoor applications.

- Superior abrasion level for an extra physical protection
- Increased mechanical strength
- Good conformability
- High adhesion level
- Flame retardant
- Good dielectric strength
- UV resistant
- Resistant to sun, water, oil, acids, alkalis, corrosive chemicals
- Meets UL 510, CSA C 22.2 no. 197.
- Meets 2000/53/EC and RoHS 2011/65/EU directives

Materials	Backing	Adhesive	Color	Standard Size
	PVC	Rubber based	Black	Width x Length 50 mm x 33 m (2 in. x 108 ft.) Other sizes available upon request
Technical Properties	Characteristics		Typical Values	Test Method
	Thickness (mm)		0,25±0,025	ASTM D 1000
	Breaking strength (N/cm)		55	ASTM D 1000
	Elongation at break (%)		300	ASTM D 1000
	Adhesion to steel (N/cm)		3,00	ASTM D 1000
	Adhesion to backing (N/cm)		3,00	ASTM D 1000
	Flammability (seconds)		0	ASTM D 1000
	Temperature Rating (°C)		Min. -10°C/Max. 80°C	UL 510/CSA C 22.2 no.197
	Dielectric Strength (V)			
	Standard		11000	UL 510/ASTM D 1000
Wet		>90% of Standard	UL 510/ASTM D 1000	
Insulation Resistance (Ω)		>1x10 ¹²	UL 510/ASTM D1000	

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 cable splices and repairs. Can be used for wrapping wire harnesses, and insulating degaussing coils.

Storage

In original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C, 50-80% R.H.

Shelf Life

60 months from date of manufacture.

LIMITED WARRANTY: Plymouth warrants that its Product will substantially conform to that product 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 complied 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. 2/2024-2026)