

Technical data

November, 2016

Product Description	Cable Tags are made of a thermoplastic polyether-polyurethane material (PUR), which is a halogen free, flame retardant, hydrolysis and micro organism resistant material. The raw material fulfils UL94-VO.	
Colours	7 - Yellow, White, Orange, Red, Light Blue, Dark Blue and Black	
Material	Thermoplastic Polyether-Polyurethane (PUR)	
Main Benefits	Cable Tags are supplied on rolls for thermal transfer printing. Making delivery of low volume and high volume equally easy.	
Application Ideas	 Ideal for identification of cables and wires. Suitable for indoor and outdoor use (long term use outdoors might cause some discoloration, but printing will still be legible). 	
MATERIAL SPECIFICATIONS		
Adherence	MIL81531 (SAE- AS81531-1998 Clause 3.4.2/4.6.2) Passed with following black ribbon: R-2300	
Resistance to solvents	MIL-STD-202G test method 215(2002) (MIL81531/SAE-AS81531-1998 Clause 3.4.3.) Passed with following black ribbon: R-2300	

PHYSICAL PROPERTIES

	Typical value	Test Method
Hardness	58 Shore D	DIN 53505
Density	1,27 g/cm³	DIN 53479
Tensile Strength	30 MPa	DIN 53504
Elongation at break	400%	DIN 53504
Stress at 20% elongation	13 MPa	DIN 53504
Stress at 100% elongation	19 MPa	DIN 53504
Stress at 300% elongation	33 MPa	DIN 53504
Tear Strength	110 N/mm	DIN 53515
Abrasion Loss	30 mm ³	DIN 53516
Compression set at room temperature	30%	DIN EN ISO 815
Compression set at 70°C	45%	DIN EN ISO 815
Tensile strength after storage in water at 80°C for 42 days	20MPa	DIN 53504
Elongation at break after storage in water at 80°C for 42 days	400%	DIN 53504
Notched impact strength (Charpy) +23°C	50 kj/m²	DIN EN ISO 179

Long term outdoor testing	Our white and yellow cable markers have been tested extensively by accelerated* ageing for a duration of 500 hours with UV and Xenon lamps. 500 hours equals approximately 10 years of outdoor exposure. The test results show that our white and yellow cable markers can be used outdoors for 10+ years without major degrading or fading of the printing when printed with our R-2300 ribbon. Some discoloration is inevitable, but will not deteriorate the functional aspect of the cable markers.		
	TEST with UV lamp, UV (340) • Light 60°C irradiation 0.76 W/m ² duration 8 hours • Spray duration 15 min • Condensation 50°C duration 3:45 hours		
	TEST with XENON lamp, XENON (340) • Light 65°C irradiation 0.50 W/m ² duration 1:42 hours • Light + spray duration 0.60 W/m ² duration 18 min		
	* Accelerated ageing testing is a result of artificial lighting/illumination in a laboratory environment under controled circumstances.		
Operating temperature: Storage	-25°C to +80°C Store in original packaging. Recommended temperature at +10°C to +25°C and 45-55% relative humidity.		
Shelf Life	24 months from date of manufacture by Rebo when stored in the original packaging at +10°C to +24°C and 45-50% relative humidity.		
For Additional Information	To request additional product information or to arrange for sales assistance, call +31 (0)35 - 601 69 41 or send an email to info@rebosystems.com		
Special Considerations	All values shown are averages and should not be used for specification purposes. Test data and test results contained in this document are for general information only and shall not be relied upon by customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact us for further information. IMPORTANT: Ultimately customers are advised to test the materials, referred to above, in their own performance environments to be certain of their performance. Data supplied by Rebo is general in content and cannot cover all the possible environments required by customers.		



www.rebosystems.com