



INDUSTRIAL

Inventing *the Future* of Wire and Cable



PROPERTIES	EXAR® 180	
Approvals / Listings:		
UL	UL 3829	
CSA	AWM 150°C 600V	
Physical: *		
Temperature Rating	150 °C Dry / 90°C Wet	
Voltage Rating (Vrms)	600V	
Flexibility - 7 days @ 213 °C	Pass	
Cold Bend - 4h @ -40°C	Pass	
Sand paper Abrasion (SAE J-1128) 350 mm	1400 mm	
Scrape Abrasion (ISO 6722, 0.45 mm cord)	818 cycle	
Tensile Strength: *		
Unaged	6073 PSI	
Retention after 7 days @ 213 °C	85%	
Elongation: *		
Unaged	410%	
Retention after 7 days @ 213 °C	110%	
Flame Test: *		
UL Vertical – VW-1	Pass	
Chemical Resistance		
Acetone	swell@23°C**	0%
Acid - H2SO4 S.G. 1.260 5%	swell@23°C**	0%
Engine Oil – ASTM D-471 IRM-902	swell@115°C**	0%
Benzene	swell@23°C/24h	0%
Epoxy	swell@23°C/24h	<1%
Gasoline – ASTM D-471 Fuel C	swell@23°C**	0%
Methanol	swell@23°C/24h	0%
Toluene	swell@23°C/24h	0%
Transmission oil	swell@150°C/720h	<2%
Xylene	swell@23°C/24h	<1%
Electrical: *		
Dielectric Constant D150/100MHz		3.5
Dielectric breakdown strength (Vrms)		19,000
Oxygen Index: (D2868 Standard)		42
Sunlight Resistance	Sec 1200, UL1581	>=80% Retention

* Properties are tested to UL 758 and UL 1581.

** Percent swell SAE J-1128 TXL

Test data based on 18 AWG sample

We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purpose. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products.

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