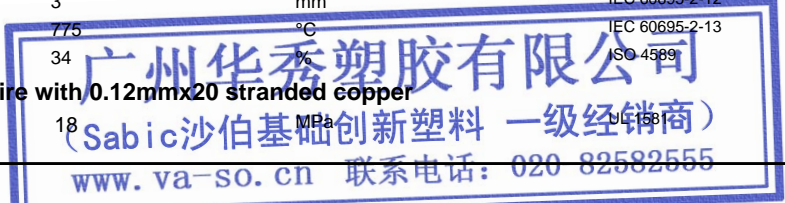


**Noryl\* Resin WCD883**  
**Americas: COMMERCIAL**

Flexible and non-halogenated flame retardant extrusion grade intended for evaluation in applications such as jacket of HD 21.14 flexible cables. Flame retardant performance capable of meeting EN 50265-2-1 requirement. 88 Shore A hardness. Processing typically conducted on standard extrusion equipment. Wire tests conducted on 2.0 mm wire with 0.12 mm x 20 stranded copper conductor.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, brk, Type I, 50 mm/min	130	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	200	%	ASTM D 638
Flexural Modulus, 12.5 mm/min, 100 mm span	500	kgf/cm <sup>2</sup>	ASTM D 790
Hardness, Shore A, 30S reading	88	-	ASTM D 2240
Tensile Stress, break, 50 mm/min	12	MPa	ISO 527
Tensile Strain, break, 50 mm/min	200	%	ISO 527
Flexural Modulus, 12.5 mm/min	40	MPa	ISO 178
<b>IMPACT</b>			
Brittleness Temperature	<-40	°C	ASTM D 746
<b>PHYSICAL</b>			
Specific Gravity	1.16	-	ASTM D 792
Melt Flow Rate, 250°C/10.0 kgf	9	g/10 min	ASTM D 1238
<b>ELECTRICAL</b>			
Volume Resistivity	5.2E+15	Ohm-cm	ASTM D 257
Relative Permittivity, 1 MHz	2.8	-	ASTM D 150
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150
Dielectric strength in oil, 2.0mm	23.7	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
<b>FLAME CHARACTERISTICS</b>			
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	165	-	ASTM E 662
Smoke Density on 0.5mm plaque, Flame, Ds, max	71	-	ASTM E 662
Glow Wire Flammability Index 960°C, passes at	3	mm	IEC 60695-2-12
Glow Wire Ignitability Temperature, 3.0 mm	775	°C	IEC 60695-2-13
Oxygen Index (LOI)	34	%	ISO 4589
<b>WIRE AND CABLE - UL 1581 tested on 2.0mm wire with 0.12mmx20 stranded copper</b>			
Tensile strength @ break	18	MPa	UL 1581


  
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 www.va-so.cn 联系电话: 020-82582555

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23±176.C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.  
 (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.  
 (4) Internal measurements according to UL standards.  
 (5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

Source GMD, last updated:

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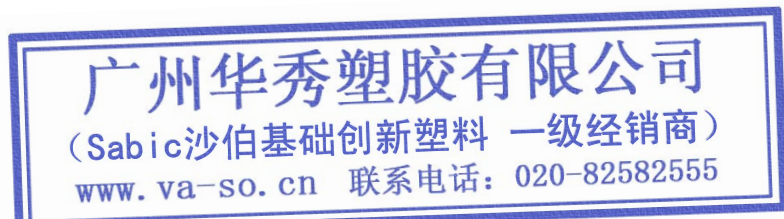
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## Noryl\* Resin WCD883

### Americas: COMMERCIAL

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>WIRE AND CABLE - UL 1581 tested on 2.0mm wire with 0.12mmx20 stranded copper</b>			
Tensile elongation @ break	248	%	UL 1581
Tensile strength @ break after 7days @80°C	20	MPa	UL 1581
Tensile elongation @ break after 7days @80°C	226	%	UL 1581
Heat Deformation at 100°C/250g	13	%	UL 1581
Vertical Flame Test	PASSES	-	EN 50265-2-1



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Wire Coating Extrusion</b>		
Drying Temperature	75 - 85	°C
Drying Time	5 - 7	hrs
Drying Time (Cumulative)	12	hrs
Maximum Moisture Content	0.02	%
Extruder Length/Diameter Ratio (L/D)	22:1 to 26:1	-
Screw Speed	15 - 85	rpm
Feed Zone Temperature	180 - 220	°C
Middle Zone Temperatures	220 - 250	°C
Head Zone Temperature	220 - 250	°C
Neck Temperature	220 - 250	°C
Cross-head Temperature	220 - 250	°C
Die Temperature	220 - 250	°C
Melt Temperature	220 - 250	°C
Conductor Pre-heat Temperature	25 - 120	°C
Screen Pack	150 - 100	-
Cooling Water Air Gap	100 - 200	mm
Water Bath Temperature	15 - 60	°C

• NOTE: Recommended Drying Parameters are based on usage of Dehumidify Drying / Drying Oven.



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