



Aurora Material Solutions Wire & Cable Compound Selection Guide

Does your application require cable construction that can perform and handle extreme environments in a wide range of temperatures? Look to Aurora Material Solutions for a proven solution. With an unparalleled expertise in thermoplastics, we offer a wide variety of polymers with performance characteristics you need, backed by the service and delivery you demand.

➤ **AuroraGuard™ and AuroraGuard SL™** AuroraGuard PVC provides high-thermal and low temperature brittleness properties making it ideal for a wide variety of wire applications including; appliance, automotive, energy storage, flexible cords and coaxial cables. Our TPO product line offers lower smoke and toxicity, and halogen-free technology for fiber optic, fire alarm and data cables.

AuroraGuard SL provides better scratch and mar resistance, improved flame retardancy, and easier installation pull-through. It's the new generation of AuroraGuard, with exceptional properties and significant improvements in processability for jacketing material. AuroraGuard SL can be processed on conventional wire and cable extrusion equipment with increased output and easier processing over other low-smoke, zero-halogen compounds. Incorporated in a wide variety of applications, AuroraGuard SL incorporates uniquely low friction additives.

➤ **AuroraFlex™** Features a full line of flexible PVC, PVC/Nitriles, custom TPOs, TPEs, CPEs, SBSs and SEBSs, with a variety of physical properties required for demanding applications.

We use different and complex chemistries to create the right formulation, considering factors that include color, UV resistance, durometer requirements, chemical resistance, low-temperature-brittleness performance and compound additives that promote elasticity. Many of these characteristics impart the high-performance properties needed for long-lasting durability and cable performance, while maintaining ease of processing. These materials have many of the same properties as vulcanized rubber, but can be molded and extruded using conventional thermoplastic process equipment.

Need a unique blend of properties, colors or environmentally friendly solutions? Our engineers can work with you to create a custom formulation — just ask.

Unmatched Aurora Customer Service

The right product is nothing without the people and support to get the job done. At Aurora Material Solutions, we've built our reputation by providing high-quality advanced polymer compounds that are trusted for their performance. We offer the technical resources and support that tie together the whole 'customization piece'. We've also invested significantly in our manufacturing capabilities, adding the latest state-of-the-art equipment and processes that optimize safety, quality and precision. As a result, we have set the benchmark in the industry for product quality and lot to lot consistency.



Ideal for Many Applications

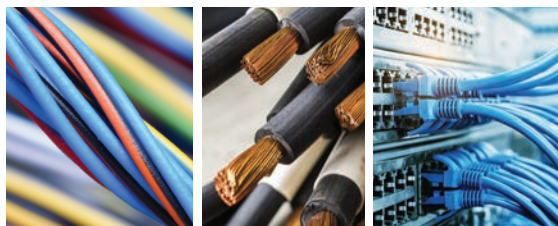
With Aurora Material Solutions, you'll find the right wire and cable protection for virtually any application.

CPE for W&C	Comments
CPE-13-021E	Good Brittleness, Chemical Resistance
CPE-17023-2	Better Brittleness, Chemical Resistance (to 13-021)
CPE-6000EM3	Best Brittleness, Chemical Resistance
CPE-14-031	Can Pass Very Harsh Oil Resistance Tests
CPE-220511	105° C Rating, OIL RES, FT-4 Flame **
GTPE 220811	CPE + TPE, 105° C Rating, -60° C Cold Bend, 44 LOI, FT-4 Flame **
CPE-230517	Similar to 220511 But Temp Rating is 90° C

LSZH for W&C	Comments
GTPO 8290-33	Highly Processable
GTPO 8290UVSL	Better Abrasion/Scratch Resistance, Higher LOI, FT-4
GTPO 8291	Next Gen Flame Performance, Self-Extinguishing Capability, FT-4

PVC for W&C	Comments
FS1000H	Plenum Application
FS1000HUVFG	Plenum Application, Fungus Resistant and UV-Resistant
GA 1021 FRLF	Riser Compound
GA 1050 OR	UL 83 Application, THHN, THWN, THHW, THW, TW, 105° C, UL 62 OIL RES 2
GA 3210	THW, TW, OIL RES 1
GA 1038	UL 83 Application, TW
GA 23003	TECK90 (CSA)
GA 22004	UL 83, NMB Jacket
GA18063H	UL 62 TPE Jacket
GA 2001985 ABC	105° C Battery Cable Compound

TPE for W&C	Comments
12003-75A	125° C Temp Rating, VW-1, Exceptional Scratch And Marr Resistance (Hardness is DIFF)
8102 EGS	Insulation Material, Heat Trace Wire
1200390A SL	125° C Temp Rating, VW-1, Exceptional Scratch And Marr Resistance
GTPO 8102 BAH	125° C Temp Rating, Jacketing Material, VW-1, Heat Trace Wire
GTPE 21-1010	105° C Rating, OIL RES 1, FT-4



Our plants' quality management systems are certified to ISO 9001:2015.