



PAL[®] compounds are environmentally sustainable, 100% recyclable, olefin based alternative used to replace melt extruded flexible PVC. *When PAL compounds are used in place of flexible PVC, they approximate the look and feel of flexible PVC but are completely 100% PVC free.*

PAL compounds are designed with the following features and benefits:

1. Nontoxic Flame Retardant System with undetectable levels of halogen and very low smoke density designed to pass most vertical and horizontal burn standards.
2. Reduced Polymer to Metal Coefficient of Friction or Anti-Slip properties
3. High levels of Scratch and Mar Resistance
4. UV stabilized for maximum retention of mechanical properties and minimal discoloration
5. Available as a custom color compound or “natural” for coloration via color concentrates
6. Are 100% Cradle to Cradle Recyclable if desired
7. Antimicrobial and Fungal Resistant or even higher levels of microbial resistance if desired.
8. A range of flexibilities and shore A hardness possible
9. Heavy Metal Free
10. Very Low to No VOC's

Listed below are a few of the more common flame retardancy specifications PAL compounds are designed to pass:

<u>Specification</u>	<u>Comment</u>
California Title 19	
NFPA 701	All years and revisions
CPAI-84	All Sections and Revisions
UL-94	VTM, V-1, V-2
MVSS 302	
ASTM E84	Class A

Recommended Use and Appearance

PAL compounds are fully custom engineered resin systems to be used as 100% usable compounds. They are available in a cylindrical pellet geometry with a free flowing size range of 35 pellets per gram to 90 pellets per gram. **PAL compound** pellets are non-dusting.

Physical Properties

PAL compounds are available with the following starting points and ranges of physical properties:

Durometer: Type “A” range start at about 60

Specific Gravity: ~0.90

Processing Conditions

Last Updated: June 5, 2013

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The following heat profile is a recommended starting point to properly melt extrude or extrusion coat the **PAL** polymers onto desired substrates. Other heat profiles can be used depending on the custom tailored solution we can provide you for your specific application:

Zone 1	Zone 2	Zone 3	Adaptor	Die
160C or 320 F	180 C or 350 F	200 C or 392 F	200 C or 392 F	210 C or 410 F

We highly recommend that you consult with your technical service representative in your evaluations of this product and its specific end use applications.

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