

<u>REV</u>	<u>DATE</u>	<u>ORIGIN</u>	<u>REVISION HISTORY</u> <u>REASON FOR CHANGE(S)</u>
A	02/07/17	Brian Davis, Rachel Perry, Scott Ubl, Travis Quinn	New
B	5/04/18	Daniel Crouse	Added PCN language

Q-CODE Q41E QUALITY REQUIREMENTS

The following are the quality requirements for product purchased under Q-code Q41E. These requirements are specific to our customer Parker Hannifin Aerospace. This includes but is not limited to granting the right of access to the supplier's facilities and all applicable records to Plexus, their customer Parker Hannifin Aerospace and regulatory authorities with the acceptance of this Purchase Order, flow down all applicable requirements to sub-tier suppliers including key characteristics and retention of all records for a minimum of 15 years that support the manufacturing or material per the requirements of this Aerospace customer. Unless a written waiver is received from Plexus, the supplier agrees to abide by the quality requirements listed below **for Acceptance of Products with Shelf Life requirements**. These products include Thermal Tape, adhesives, special solderable finishes, elastomeric compounds and rubber products.

In addition to the PO requirements and requirements set forth below, all parts and products produced against this purchase order must also comply with Parker Hannifin P9112 Q010 – General Requirements Clause and Sections Q450 Age Limits for Elastomers and Q460 Limited Shelf Life Materials. This document can be located at the following: www.parker.com. Find Company Information, Select Working with Parker, Select Parker Aerospace Suppliers and QA Purchase Order Clauses.

First Production Run/Pre 1st Shipment/Change to Product - Before a product can be released for production the supplier will be required to meet the documentation and quality requirements as follows:

ALL Shipments:

- A. Material Certificate** – At a minimum the material certification must include a statement declaring that the items are manufactured from the material specified. This may be included with the certificate of compliance.
- B. Certificate of Compliance** – Must include a statement of overall compliance to all the applicable specifications (statement is not required to list, but shall cover all the applicable specification such as: drawing, PO, customer specifications, Plexus G9000-3, IPC Specification, etc).

It must also include the following information for traceability:

- Name of Supplier (if different than the actual Manufacturer/OEM/OCM).
- Name of Manufacturer/OEM/OCM.
- Manufacturer's/OEM's/OCM's Part Number.
- The Manufacturer/OEM/OCM Lot Number and/or Date Code (both are preferred). Each shipment, COC and Packing Slip Must Contain Only One Lot or Date Code.
- Location or place of Manufacturer.
- Durometer reading, Compound number and Cure date (only applicable to elastomeric compounds and rubber products).
- The remaining shelf life must be greater than 50% of the stated shelf life, the manufacturer or cure date, batch number, the shelf life and **expiration date** must be included. Any special handling and/or storage

requirements must also be included.

- Plexus Part Number ordered on the PO.
- EC level or Revision level as specified on the PO for the Plexus Part Number ordered.
- PO Number.
- Certifying Signature, title and date.

C. Manufacturer Certificate of Compliance – When the Manufacturer of the part is not the same as the supplier (e.g. a Distributer, Rep, etc), a separate Manufacturer COC must be included along with the shipment. The Manufacturer COC must be traceable to the product/parts supplied. When the Manufacturer is the direct Supplier, this requirement is fulfilled with Item B.

D. In addition to all the requirements of listed above also applicable are the controls listed below which establish specific requirements of the product/parts and processes for Parker Hannifin Aerospace and Must be followed:

P9112 1.6.1 QUALIFIED PROCESS SOURCES –

All special processes must be performed by sources approved by Parker Hannifin Aerospace. Use of processes and/or process sources that have not been approved by Parker Hannifin Aerospace may result in return of all products to the Supplier at the Supplier's expense. Unless otherwise directed by the Contract or the procuring Plexus division, the Supplier shall select process sources from the list of Parker Hannifin Aerospace approved process sources that can be found on the 'Internet' on Parker Hannifin home page (www.parker.com) under the heading Parker Aerospace Group and subheading "Parker Aerospace Suppliers".

For Acceptance of Custom Engineered Components that may utilize thermal tape, adhesives, epoxy, etc that have a shelf life, the following is also applicable:

E. First Article Inspection Requirement - Supplier will execute the Aerospace First Article Inspection requirements of the SAE standard, AS9102 and provide the results to Plexus with each shipment in which the requirement is to be executed.

F. Additional First Article Inspection Requirements:

- Only one part or assembly will be selected and inspected as part of the First Article Inspection.
- Only one part of assembly should accompany the FAIR unless otherwise requested.
- Raw materials must have direct traceability with the chemical and physical properties submitted to Plexus.
- Special processes utilized by the supplier will require a certificate of compliance at a minimum.

Packaging and storage of the material and end product must meet the requirements specified by the manufacturer of shelf life sensitive material.

G. In addition to all other requirements listed, all required documentation, labels, packaging and packing slips must have Plexus part number, EC level or Revision, quantity and PO number listed on them.

*When the revision of the product/part changes, **First Production Run requirements** Must be completed as a new part Before the shipment of product/part to Plexus.*



The above listed required documentation must be submitted with each shipment. Shipments received without the completion and proper execution of these Quality Requirements is considered non-conforming and Plexus reserves the right to return to the supplier at the supplier's expense.

Product change notification

Upon acceptance of conforming product, documentation, and the requirements of this Q-code, the supplier's manufacturing process shall be considered "qualified". All changes require written approval from Plexus prior to implementation. Product or Process change notification requests (PCNs) shall be submitted to pcns@plexus.com.