



Checklist – adhesive requirements

The more we know about your application and requirements the better we can help with the selection of the appropriate adhesive and process conditions. Thank you.

Process:

1. How do you plan to apply the adhesive?
2. How can you cure the adhesive?
If by temperature: what is the maximum possible temperature?
If UV: what kind of UV-equipment do you? Flood type or spot? Hg-lamp or LED? Wavelength? Intensity?
3. Subsequent processes after the bonding process?

Requirements:

4. What do you bond? Which substrate materials?
5. How do you prepare the surfaces?
6. If you need an electrically-conductive adhesive: which metallization(s) do you have on the substrates?
7. If you bond on plastic substrates: which type of plastic? Surface tension? Would you have access to plasma-treatment?
8. What is the end product?
9. Approx. dimensions of the bonding area (L x W x D)
10. Is this a new application? If not – what is being used now? Why an alternative, where are the issues? (This helps to avoid running into the same problems.)

Specific Parameters:

11. Electrically conductive/electrically insulating? (These products will be thermally conductive as well)
12. Thermally conductive/electrically insulating?
13. Max. operating temperature? Max. intermittent temperature (short-term peaks)
14. Temperature cycles? No. of cycles? Temp. Range? Cycle time? Shock or slow temp. Change?
15. Mech. Requirements? At which temperature? (shear strength, pressure, vibrations etc.)
16. Humidity and chemical resistance – exposure time, type of chemical, at which temperature, concentration %, etc.
17. Optical requirements? At which wavelength?
18. Color?
19. Vacuum compatibility required?
20. Standards? (MIL-Specs, Telecom, Medical etc.? – please be specific if this is a „must have“ or a „nice to have“

Thank you for taking the time to give us these details!