



## TECHNICAL REQUIREMENTS TOYS

All products:

- Ease of assembly using instructions provided, where applicable
- Size as specified in specification
- Parts as specified in specification
- Colour match with other items in the range where applicable
- Workmanship and functionality carried out by ASDA Development Technologist
- All plastic must be free from sharp edges / flashing / burrs.
- There must be no deformation of shapes and no areas of matting (unless it is intended)
- The use of regrind shall not compromise the appearance, performance or toxicity level of the product and must be highlighted to the Development technologist to approve.
- Must be free from excessive or unpleasant odours.
- Full details of plastic grade and manufacturing method must be highlighted in submitted specifications along with weight and dimensions

### History of amends

DATE	AMENDMENT	APPROVED BY
01/12/08	Hard eyes/noses/zip pullers and any other small critical parts are not permitted on any plush toy within the range unless supported by a minimum of 30 pieces Test to Failure data showing a Z-value of 4 and above. The test to failure test method is the hot wire test as this does not compromise the shaft of the hard eye attachment. Embroidered or appliquéd facial features must be used as an alternative and Velcro should be used as a suitable alternative to zippers	J Ryder
01/12/08	Decorative bows should be a minimum of 2cm in width. Loops created by bows should not exceed 35cm in circumference. Any ribbon less than 2cm in thickness should not form a loop. If a bow is required, the loops must be cut and heat-sealed to remove the tourniquet hazard.	J Ryder
01/12/08	Sew in labels must not form loops. This could represent a tourniquet hazard	J Ryder
01/12/08	The plastic tags used to attach swing tags must go completely through the product so that both ends are visible so that they can be easily cut and removed without leaving plastic parts in the product which could be a potential small parts hazard.	J Ryder
01/12/08	All plush product to be clearly batch coded either on the care label or separate label behind the care label.	J Ryder

Product family	Minimum make standard
Batteries (Generic)	<ul style="list-style-type: none"> <li>• Battery compartment must be screwed down.</li> <li>• Markings are inside or around battery compartment (WEEE marking, polarity, type) – see ASDA technical and test requirements for electronics.</li> <li>• Detail type of batteries and define included or excluded.</li> <li>• Battery operated toys must generally have a try me function. There are some exceptions like (RC) Radio Control.</li> <li>• Isolator tabs are required on battery products.</li> </ul>
Plastic Battery Toys	<ul style="list-style-type: none"> <li>• All small parts must meet 90N</li> <li>• Test to failure may be required for attachment of small parts.</li> <li>• Small Parts attached with glue or ultrasonic welded are not permitted. Both are highly unreliable. Attachment must be mechanical.</li> <li>• Engineering drawings are useful to understand assembly and security.</li> <li>• Torque testing for security of screws.</li> <li>• Request plastic type for all plastic toys. Best quality is generally ABS. Its tough and gives good finish/appearance.</li> <li>• Look out for evidence of old moulds. i.e. flash or sharp injection points.</li> <li>• Pull along cords will require breaks.</li> <li>• No laminated labels on plastic toys for under 5 years.</li> <li>• New standard for suction cups must be met.</li> </ul>
Radio Control Cars	<ul style="list-style-type: none"> <li>• Require an R&amp;TTE certificate</li> <li>• Must operate on frequency allowed in UK</li> <li>• Need registering with OFFCOM</li> <li>• Need instructions and signed statement of conformity for OFFCOM</li> <li>• All small parts must meet 90N</li> <li>• Test to failure may be required for attachment of small parts.</li> <li>• Small Parts attached with glue or ultrasonic welded are not permitted. Both are highly unreliable. Attachment must be mechanical.</li> <li>• Engineering drawings are useful to understand assembly and security.</li> <li>• Torque testing for security of screws.</li> <li>• Request plastic type for all plastic toys. Best quality is generally ABS. Its tough and gives good finish/appearance.</li> <li>• Look out for evidence of old moulds. i.e flash or sharp injection points.</li> <li>• No laminated labels on plastic toys for under 5 years.</li> </ul>
Plush Toys	<ul style="list-style-type: none"> <li>• Hard eyes/noses/zip pullers and any other small critical parts are not permitted on any plush toy within the range unless supported by a minimum of 30 pieces Test to Failure data showing a Z-value of 4 and above. The test to failure test method is the hot wire test as this does not compromise the shaft of the hard eye attachment.</li> </ul>

	<p>Embroidered or appliquéd facial features must be used as an alternative and Velcro should be used as a suitable alternative to zippers.</p> <ul style="list-style-type: none"> <li>• Pile must not be easily removed. Highlighted products must pass the in-house test method AD033.</li> <li>• Closing seams and other areas of hand-stitching must have a stitch density of at least 12 stitches per inch.</li> <li>• Any detail stitch used for decorating faces/paws etc must be lock-stitched and must not pull into loops greater than 5mm in diameter to prevent a tourniquet hazard.</li> <li>• Plastic pellets and beans used within a toy as a weight must be placed within a bag constructed of fabric of sufficient density so that they cannot be removed from the bag without cutting the seam. The bag must then be secured inside the toy but must not share a common seam with the skin of the toy in case of seam breakage.</li> <li>• No monofilament fibres allowed.</li> <li>• No hard components that can fit through either template A and B allowed because of the potential impaction hazard.</li> <li>• Laminated film fabrics must not be used due to the potential suffocation hazard if the laminated film should become detached from the base material.</li> <li>• Decorative bows should be a minimum of 2cm in width. Loops created by bows should not exceed 35cm in circumference. Any ribbon less than 2cm in thickness should not form a loop. If a bow is required, the loops must be cut and heat-sealed to remove the tourniquet hazard.</li> <li>• Sew in labels must not form loops. This could represent a tourniquet hazard.</li> <li>• The plastic tags used to attach swing tags must go completely through the product so that both ends are visible so that they can be easily cut and removed without leaving plastic parts in the product which could be a potential small parts hazard.</li> <li>• All plush product to be clearly batch coded either on the care label or separate label behind the care label.</li> </ul>
Hot Water Bottles	<ul style="list-style-type: none"> <li>• The hot water bottle manufacturers must have a current kite mark license or it must be demonstrated that the quality procedures are such that they would achieve a kite mark license.</li> <li>• The hot water bottle manufacturer must complete regular documented external testing to ensure their hot water bottles continue to meet the requirements of BS 1970:2001.</li> <li>• Consistent quality/percentage of rubber master batch maintained throughout production to maintain integrity of the rubber material.</li> <li>• Hot water bottle cover. Heat Transfer test on eyes or other hard components.</li> </ul>
Soft Bodied Doll (Hard Plastic limbs & head).	<ul style="list-style-type: none"> <li>• Application: Soft-bodied dolls with hard plastic limbs and head.</li> <li>• Generic requirements - Dolls</li> <li>• Must meet EN71 parts 1, 2, 3 for all ages and the Toy Safety Directive</li> <li>• Stuffed areas must meet seem test strength 90N.</li> <li>• Plastic substrate should meet Bite and Tear requirements.</li> <li>• Plastic substrate should not contain banned phthalates (see Asda Environmental Codes of practice)</li> </ul>

	<ul style="list-style-type: none"> <li>• The eyelashes if detached do pose an aspiration hazard if detached in clumps. If single lashes are removed this is a lower level of hazard.</li> <li>• Eyelashes should not be detachable below 90N</li> <li>• Dolls eyes should not be detachable or accessible</li> <li>• All sew in labels need to meet a 90N attachment strength.</li> <li>• Ratchet mechanism closing the body to the head (if used) must not have length of plastic accessible. Must be finished sufficiently so does not release head from doll, but also so does not pose a laceration hazard.</li> </ul>
Interactive dolls (using battery compartment and wiring).	<ul style="list-style-type: none"> <li>• Must meet requirements as detailed above in addition to the following:</li> <li>• Must meet EMC Directive and EN50088/EN62115 for all ages in addition to the EN71 requirements.</li> <li>• Must comply with Batteries and Accumulators Directive</li> <li>• Wires on the interactive dolls must be enclosed within doll, hidden and inaccessible.</li> <li>• All battery compartments must be screwed closed and the batteries only be accessible by two independent movements or the use of a tool.</li> </ul>
Attachments to be sold with dolls	<ul style="list-style-type: none"> <li>• Any rigid attachments must be included with the doll must meet the critical parts criteria.</li> <li>• Any attachment must comply to EN71 parts 1,2,3 for all ages</li> <li>• Any soft plush toys with the dolls must meet the 50cc plush criteria and not contain hard eyes or noses</li> <li>• All attachments (heads, ears, bows etc) on toys included with dolls must meet 90N attachment strength</li> </ul>
Costumes (incl head ware)	<ul style="list-style-type: none"> <li>• Check sizing</li> <li>• Pile retention</li> <li>• No strangulation hazard (Loops, Cords)</li> <li>• Seam strength</li> </ul>
All Notepads, books, sketchpads.	<ul style="list-style-type: none"> <li>• Books and Notepads aimed at children under 36 months must not be stapled as a means of securing the pages. Thread stitching or other approved methods must be used.</li> <li>• When staples are used in books or notepads for children over 36 months of age, the ends of the staples should be bowed inward so that the sharp ends are not accessible. Staples should always be used within their design specification criteria. Wire binding ends that are not bent in could be considered a hazardous sharp point and must be assessed by an accredited laboratory Developmental Technologist.</li> </ul>
Out Door Toys	<ul style="list-style-type: none"> <li>• Item needs to be fully phthalate free.</li> <li>• Drain plug in base for easy emptying.</li> <li>• Assess Stability.</li> <li>• No possible finger entrapment</li> <li>• No sharp edges, burrs</li> <li>• Check Rating Label</li> <li>• Instructions for Use.</li> </ul>
PPE Impact Protection	<ul style="list-style-type: none"> <li>• pH (all materials)</li> </ul>

	<ul style="list-style-type: none"> <li>• Azo (Dyed materials in skin contact)</li> <li>• Chrome 6 (Leather only)</li> <li>• Colour Fastness to perspiration (Dyed materials)</li> <li>• Nickel (Skin Contact)</li> <li>• Protectors must adequately cover the area at risk.</li> <li>• Are the protectors comfortable?</li> <li>• Do they interfere with normal activities?</li> <li>• Do they compromise safety?</li> <li>• Testing is generally a wear trial.</li> </ul>
Animation	<ul style="list-style-type: none"> <li>• No sharp edges, burrs</li> <li>• Pile retention</li> <li>• Mechanics are sealed</li> <li>• No exposed wiring</li> <li>• No possible finger entrapment</li> <li>• Pull eyes, nose etc</li> <li>• Check stitching</li> </ul>

All products must be tested. Testing for each product must be agreed with the ASDA development technologist. Please view ASDA test requirements: Toys and electronics.