

Sound Level Requirements for Sound-Producing Toys

Updated Nov 2016

Toy	EN 71-1: 2014			ASTM F963-16		ISO 8124-1:2014		ST 2016 Part 1	
	Cat	L _{pA}	L _{pC peak}	LA _{eq}	LC _{peak}	L _{pA}	L _{pC peak}	L _{pA}	L _{pC peak}
Close-to-ear	1	60	110	65	110	65	95*	65	95*
	2	65							
	3	70							
Table-top or floor toy or hand-held toy	1	80	110	85	115	85	115*	85	115*
	2	85							
	3	90							
Headphones & earphones	1	85	135	Not applicable		Not applicable		Not applicable	
Rattles	2	85	110	NA	115	NA	115*	NA	115*
Squeeze	2	85	110	Not applicable		Not applicable		Not applicable	
Pull along or Push toy	1	80	110	LAFmax 85	115	LpAmax 85	115*	LpAmax 85	115*
	2	85							
	3	90							
Percussion toy	2	85	110/130	85	115	-	115	-	115
Wind toy	2	85	110	Not applicable		Not applicable		Not applicable	
	3	90							
Cap-firing toy	3	90	110/125	-	125	85	115*/125*	85	115*/125*
Voice toy	1	80	110	Not applicable		Not applicable		Not applicable	
	2	85							
	3	90							

Notes:

- *marked noise is applicable to impulsive sound only where the sound pressure significantly exceeds the ambient noise in duration < 1 second.
- L_{Aeq}: 'A' is the A-weighted emission sound level; L_{Cpeak}: 'C' is the C-weighted peak emission sound pressure level.
- Exposure category 1: Toys emitting sound during time period typically longer than 30s after each initiation; Category 2: Toys emitting sound during time period typically shorter than 30s but longer than 5s after each initiation; Category 3: Toys emitting sound during time period typically shorter than 5s after each initiation.

Hong Kong: hktcd@stc.group Dongguan: dgtcd@stc.group Shanghai: shtcd@stc.group Japan: jpo@stc.group U.S.A.: usstc@stc.group Germany: info@pkm.eu.com

Headquarters: The Hong Kong Standards and Testing Centre Ltd.
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

www.stc.group