



## **POLYTRON informs**

### **Information about material regulations**

About the plastic products supplied by us we could give following information:

We confirm, to the best of our knowledge and according to the actual status of technology, that hazardous substances like the below listed ones are neither being used nor added nor found during the production of polymers, semi-finished plastic shapes and plastic parts made from these:

- Asbestos fibers and fillers
- Bisphenol A – CAS: 80-05-7 (BPA)<sup>i</sup>
- Dimethyl fumarate – CAS: 624-49-7 (DMF < 0,1 mg/kg)
- Chlorofluorocarbons (CFC, HCFC)
- Conflict Minerals (Gold, Tantalum, Tungsten, Tin)<sup>ii</sup>
- Latex<sup>iii</sup>
- Octabromdiphenyl ether – CAS: 32536-52-0 (OBPDE) (OBPDE)
- Pentabromdiphenyl ether – CAS: 32534-81-9 (PBDPE)
- Decabromdiphenyl ether – CAS: 1163-19-5 (DBDPE)
- Perfluorooctanesulfonic acid (PFOS)
- Phthalate (BBP <0,1%, DBP <0,1%, DEHP <0,1%, DIBP <0,1%, DIDP, DINP, DNOP, DOP)
- Polybrominated biphenyl (PBB <0,1%)
- Polybrominated diphenyl ethers (PBDE <0,1%)
- Polychlorinated biphenyl (PCB)
- Polycyclic aromatic hydrocarbon (PAH)
- Heavy metals (Lead <0,1%, Cadmium <0,01%, Chromium (VI) <0,1%, Mercury <0,1%)
- Silicone<sup>iv</sup>
- Substances of animal origin (BSE/TSE, ADI)<sup>v</sup>

Insofar our products comply with the following regulations<sup>vi</sup>:

- (EC) No 1005/2009 – Regulation on substances that deplete the ozone layer
- (EC) No 1907/2006, Appendix XVII – Regulation on the registration, evaluation, authorization and restriction of chemicals (REACH)
- 2000/53/EC – Directive on end-of life vehicles (ELV)
- 2009/251/EG – Decision requiring member states to ensure that products containing biocide DMF are not placed or made available on the market
- 2011/65/EU – Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)<sup>vii</sup>
- 1994/62/EC – Directive on packaging and packaging waste
- 2015/863/EU - amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances

**Remark:** As apart from that the above listed substances are not being used during production runs, consequently limiting values need not to be controlled.



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KUNSTSTOFFTECHNIK

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### Remarks:

- i Exceptions are our products made from Polyetherimide (PEI), Polysulfone (PSU) and Polycarbonate (PC). These polymers are being produced amongst others from monomer Bisphenol A (BPA). After polymerization process little monomer particles may remain within the product! The use within the EC is laid down in the "Union list of authorized monomers (...)" according to Regulation (EU) No. 10/2001, i.e. a use of BPA is allowed up to a specific migration value (SML) of 0.6 mg/kg! **The limiting value of BPA of above subscribed products has to be specified on the final product!**
- ii According to the Dodd–Frank–Act Title XV (Sec. 1502) US-companies have to disclosure whether they use so called conflict-materials originating in or near the Democratic Republic of the Congo and which are benefiting armed groups in the area.
- iii During the production and fabrication processes latex gloves could be used. Residues of these gloves might remain on the surface of the products, but generally can be removed by using dedicated cleaning processes.
- iv During the production processes (e.g. extrusion, injection molding, pressing) silicone spray could be used as an external lubricant. Residues of this spray might remain on the surface, but generally will be removed during secondary operations.
- v Basically polymers may contain additives from derivatives of fatty acids of animal origin. But it has to be considered that during the complete manufacturing process – from producing the additives to the processing of plastics and the subsequent finishing and treatment – the additives are re-exposed to temperatures exceeding 200°C for several hours. Due to this production process it is difficult to imagine that additives from derivatives of fatty acids of animal origin in plastics can redistribute or spread bovine spongiform encephalopathy (BSE)/ transmissible spongiform encephalopathy (TSE). However, as the transmission of BSE/TSE by plastic additives is actually not expected there is no strict control of prescribed limit values! Therefore it remains in the responsibility and duty of the user or buyer to control quality requirements complying with allowed limit values or legal regulations.
- vi The European Parliament and the Council have released the Regulation (EC) No. 1907/2006 for Registration, Evaluation, Authorization, and restriction of Chemical substances (REACH). This Regulation reforms and consorts the intra-community Chemicals' Law and at the same time shall secure a high protection level for health and environment. REACH codifies that manufacturers, importers and so-called downstream users have to make sure that they only produce, put in circulation or use such materials which do not affect adversely human health or environment. Please note our special remarks to that issue.
- vii In conjunction with this directive we often get inquiries to the compliance of our products with directive 2002/96/EC on waste electrical and electronic equipment (WEEE). This directive provides rules for the prevention of waste in electrical and electronic equipment as well as the recycling and other forms of recovery of such waste so as to reduce the disposal of waste. As producer of semi-finished and single finished plastic parts we could make no statements to the compliance of our products with this specific directive.

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