



IMDS
MATERIALDATA
SYSTEM

IMDS Reference Letter

Thank you for your request for information concerning the appropriate material data record in the IMDS Material Data System. It is the policy of our Business Units, DuPont Performance Polymers and DuPont Packaging & Industrial Polymers, to supply information in letterform along with legal disclaimers. The following information on our products is provided to you free of charge in order to allow your company to identify the appropriate IMDS data set.

Company name: DuPont Polymers
Company ID: 15082
Type: Material (MDS)

ZYTEL® 101F NC010

Nylon resin

Base polymer identification: (PA66)
Material part marking code: [>PA66<]
IMDS ID: 14010230

Caution:

The polymer identification and part marking code refer to the material composition (IMDS composition) but also to the material property profile (IMDS symbol field). Therefore, in some cases, differences can appear, e.g. in case of impact modification (impact modifier added into the composition, but not generating properties that justify a coding of impact modified polymer).



General information for all plastics and elastomers:

During drying, purging and moulding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat.

Conditions of 'Good manufacturing Practice', state-of-the-art, fully operational workplace equipment and conditions and respect of the suppliers handling, processing and use prescriptions and precaution have to be assured.

The respect of exposure limits as per applicable Safety data Sheet has to be assured by the material user.

Like most thermoplastic plastics and thermoset elastomers, the product can be recycled. Where possible recovery and recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations.

Specific Information:

For grades containing Polyacetal (POM) polymer, some formaldehyde can be created during processing.

For grades containing glass fibers, these DO NOT represent Whisker-fibers which comply with the description of the WHO for hazardous fibers* . (* Fibers with $l > 5 \mu\text{m}$, $d < 3 \mu\text{m}$, $l:d > 3:1$)

Declaration of recycle content (as per IMDS definition):

Following is the DuPont position: As for metals, glass, textile and paper products, within the raw material specification limits, the feedstock may vary based on technical reasons and availability. Polymer materials therefore have to be considered as 100% new materials if not otherwise indicated.

Applied threshold of declaration:

Declaration thresholds are applied as defined in the GADSL list.

For non-numerically defined thresholds like 'Any intentionally added content' or 'Report any known concentrations' a general threshold for low level trace of 1 ppm (0.0001 %) is used.

Validity of DuPont Polymer entries into IMDS

DuPont Polymer entries have been validated against the following substance* list:

GADSL list 2018, revision 1, released 01 February 2018, <http://www.gadsl.org/>

Validity of entries: Up to 1st August 2019.

*Important notice:

Concerning the GADSL entry 55 'Formaldehyde', Threshold

Any intentionally added content of formaldehyde must be reported. Formaldehyde in any material, which may be emitted under reasonable and foreseeable conditions, must be qualitatively indicated. Impurities of formaldehyde above 0.1% has to be declared.

DuPont offers polymers, which are based on formaldehyde as monomer. Monomers are not considered as reportable, since in the material, as assembled to the vehicles, the monomers have been transformed into a solid polymer.

The requirement 'Any material with the potential to emit formaldehyde must be indicated' would require an appropriate input field in IMDS, which, however, is not available. Therefore, this GADSL required information is provided through the 'IMDS Reference Letters', outside the IMDS system.

Remark :

European Directive 2000/53/EC (End of Life Vehicle Directive) and its amendments

The above Directive, enacted in EU Member States, requires that four identified metals are not deliberately added and their amount of trace contaminants does not exceed specified limits. Hazardous substances as per European Regulation (EC) 1272/2008 have to be identified if present above the classification limit.

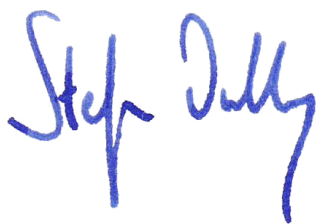
Heavy Metals

None of the four named heavy metals, - namely cadmium, lead, mercury and hexavalent chromium, - have been added to this product or the constituents contained in the product.

Representative samples of above or similar materials have been examined to assure that potential trace contamination levels are below the required limits.

Statement of conformity

Based on the results of the various analytical testing, auditing and process analysis techniques, this material is claimed to comply with the requirements of the European Directive 2000/53/EC (End of Life Vehicle Directive) and its amendments.



Stefan Dully
Regulatory Affairs Programs Manager

This statement is based on our current level of knowledge and covers commercial and experimental resins as supplied by DuPont at the date of issue. Since conditions of use are outside DuPont's control, DuPont makes no warranties, express or implied, and assumes no liability in connection with any use of this information.

Disclaimer :

1. The data is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a particular material for a particular purpose. DuPont makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information.
2. Statements concerning the use of the products or formulations described herein are not to be construed as recommending the infringement of any patent, copyright, designs or other intellectual property and no liability for infringement arising out of such use is assumed by DuPont. None of this information is to be considered as a license to operate under any patents.
3. This statement is based on our current level of knowledge. It considers deliberately introduced substances and known contaminants of the products final composition. It does not consider possible substances formed during subsequent transformation steps of the material. Except for substances mentioned as exceptions, the resin is not manufactured adding any of the reportable, restricted or forbidden substances above the limits identified. To the best of our knowledge, none of our raw material suppliers use these substances in the manufacture of their products. Please note that we do not analyse our products for substances not purposely added.
4. For all safety, health and environmental information the Material Safety Data Sheet is the only appropriate information source which is not replaced by this information. The Material Safety Data Sheet provides important information beyond the data provided and needs to be known before use of DuPonts materials.
5. This information is valid only for DuPont Polymer products as shipped from our facility, and may become invalid if the product is mixed with other materials or otherwise altered.