



Griltex Copolyester and Copolyamides in Masterbatches

Griltex[®]
EMS

www.emsgriltech.com

General Information

- Griltex is the registered trade name of Copolyamides and Copolyester manufactured by EMS-CHEMIE AG
- Griltex is available as granules or in different powder fractions (e.g. 0-80, 80-200, 80-500, 0-800 μm ...)
- Griltex is used either as carrier or as additive in masterbatches for
 - carbon black
 - pigments
 - dyes
 - stabilizers
 - flame retardants
 - additives
- Griltex containing masterbatches are used for
 - fiber spinning
 - injection moulding
 - extrusion

Regulations

- Griltex is in compliance with EN 71-3 for toys
- Griltex does not contain halogens
- Most of the Griltex products are in compliance with the EC directive 2002/72/EC about plastic materials intended to come into contact with foodstuffs
→ ask for a supplier compliance statement

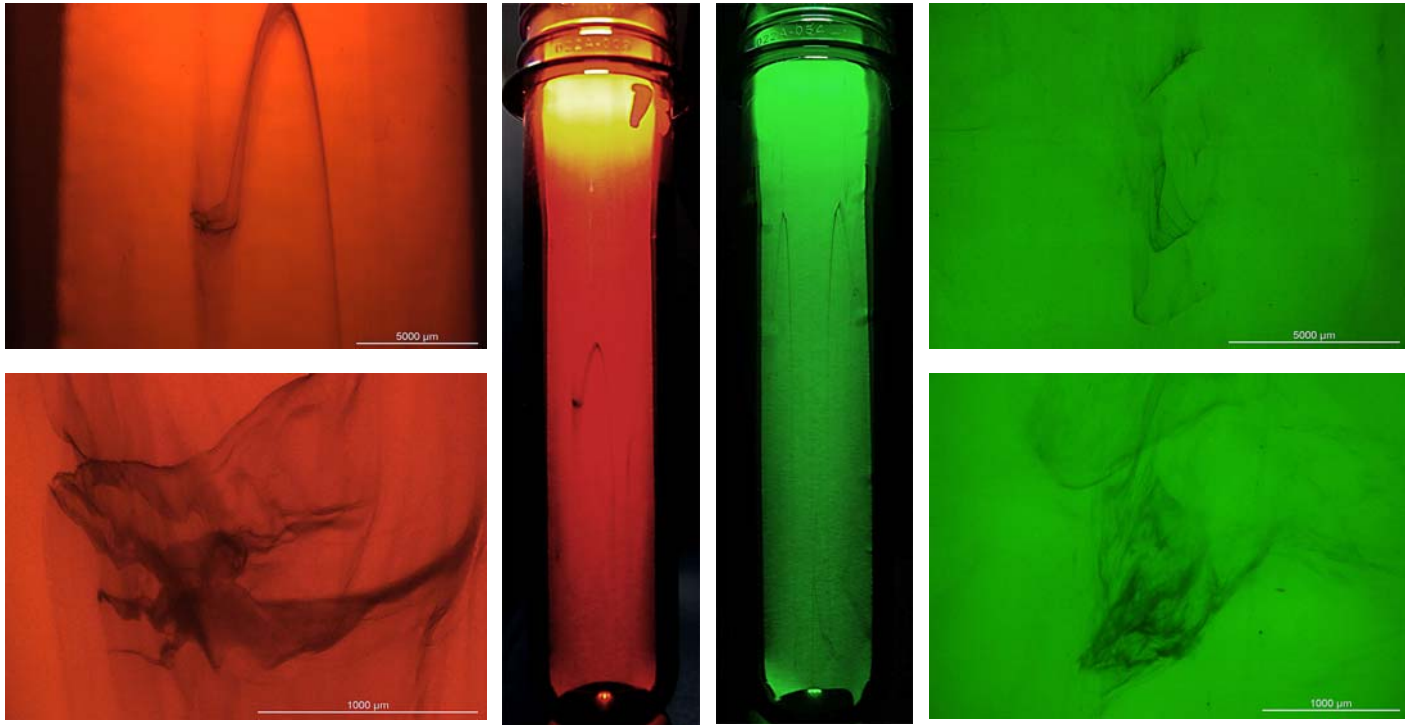


Benefits

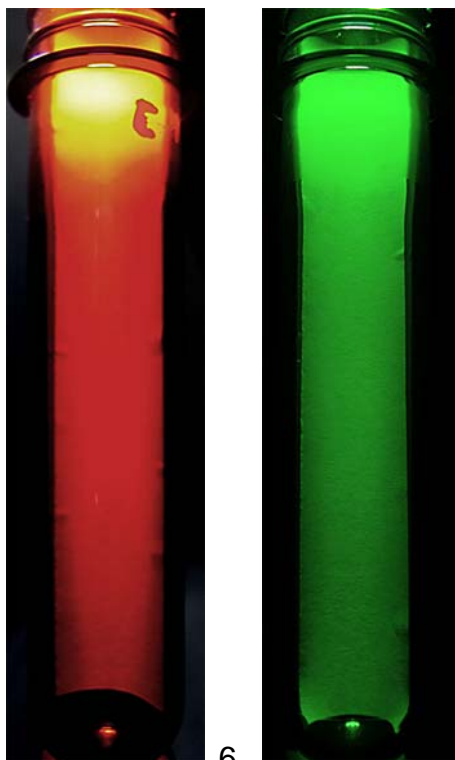
- Good compatibility of Griltex copolyamides with engineering polyamides (e.g. PA 6, PA 66, PA 610, PA 12)
- Good compatibility of Griltex copolyester with engineering polyesters (e.g. PET, PBT)
- Good compatibility of Griltex copolymers with engineering plastics (e.g. PC, PLA, TPU, TPE)
- Homogenous pre-mixtures with pigments in powder form
- Good dispersion of pigments, dyes and other compounds, even at high loads
- Easy distribution of the masterbatch in the end application
- Reduced viscosity
- Reduced shear sensitivity
- Masterbatch production of temperature sensitive materials
- No negative effects on further processing steps like painting and printing

Effects / Example

- **Problem:** Inhomogeneous dispersion of pigments in preforms for PET bottles



- **Solution:** Homogeneous dispersion with GRILTEX



Recommended Adhesives

We offer a broad variety of Copolyester and Copolyamides with melting points from 70 to 220 °C and melt viscosity at 200 °C/2.16kg from 20 to 1000 Pa*s.

Polymer Matrix	Recommended GRILTEX	Effect
PET, PBT	D 1841E D 1502E D 1533E	dispersion of pigments and carbon black, reduced viscosity, stable IV
PA	D 1556A	dispersion of pigments and carbon black, reduced viscosity
PC	D 1841E	dispersion of pigments, reduced viscosity
PLA	D 1531E	reduced brittleness
TPU	2A D 1566A	lower weakness, improved pelletizing
TPE	D 1662A	lower weakness, improved pelletizing

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