

PHK POLYMERTECHNIK GMBH

NPS NEW POLYMER SYSTEMS, INC

Foundation

- PHK Polymertechnik GmbH was founded in 2002
- NPS New Polymer Systems, Inc. in 2009

Branches

- Plastics

Key materials

- Bio-based hydrophobic fillers
- Compounds

Key bio-based products

- Nerolit 100
- NeroPlast
- Nerolit / NeroPlast compounds with different matrix polymers

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Company

PHK and NPS are active in the field of thermoplastic compounds. They serve the market with the same products in different regions of the world. The base region of PHK is Europe and of NPS it is North America. Both companies are technology driven to provide their customers with latest developments in biobased plastic composites. Both companies are active in developing the whole chain of production from the origin of the raw bio material to the use of ready compounds.



Material

Nerolit / NeroPlast is a 100% biobased, hydrophobic, heat tolerant, durable, UV-stable, light weight and good value filler for plastics. It substitutes heavy weight inorganic fillers like talcum, calciumcarbonate or glass making composites lighter and bio friendlier. It adds strength, increases heat deflection temperature and reduces thermal shrinkage. Due to its heat tolerance it can be used with technical polymers like polyamides (Nylons) which is unique for biofillers. Its hydrophobic character makes composite with Nylons less hydrophilic compared to the neat matrix material.

NeroPlast filler has been awarded USDA BioPreferred designation.

Products

Nerolit / NeroPlast is offered as powder with different mesh sizes. For those who have problems with dosing of powders or due to other reasons Nerolit / NeroPlast is also offered as Masterbatch with different matrix polymers like PE, PP or PA 6.

Nerolit / NeroPlast Compounds are ready to use composites for application in injection moulding, profile extrusion or sheet moulding.



Nerolit/NeroPlast is derived entirely from renewable sources.

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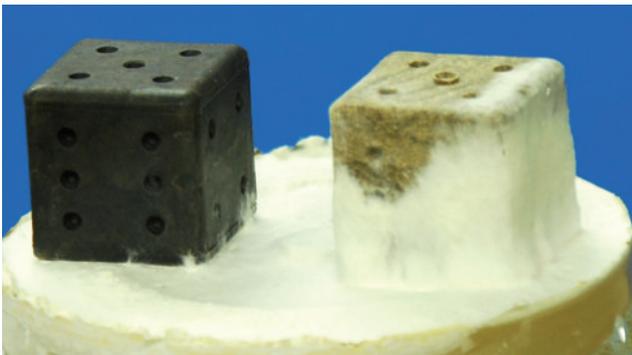
Lamp holder made by injection moulding of a composite containing 60% Nylon (PA 6) and 40% Nerolit 100.



Nerolit/NeroPlast absorbs ultraviolet radiation and protects polymers from degradation.



Nerolit/NeroPlast can withstand temperatures as high as 300 °C during processing.



Nerolit/NeroPlast is durable against microbial deterioration.

Suppliers



Nerolit/NeroPlast is half as dense as calcium carbonate or talc, and as light or lighter than all other biofillers.

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