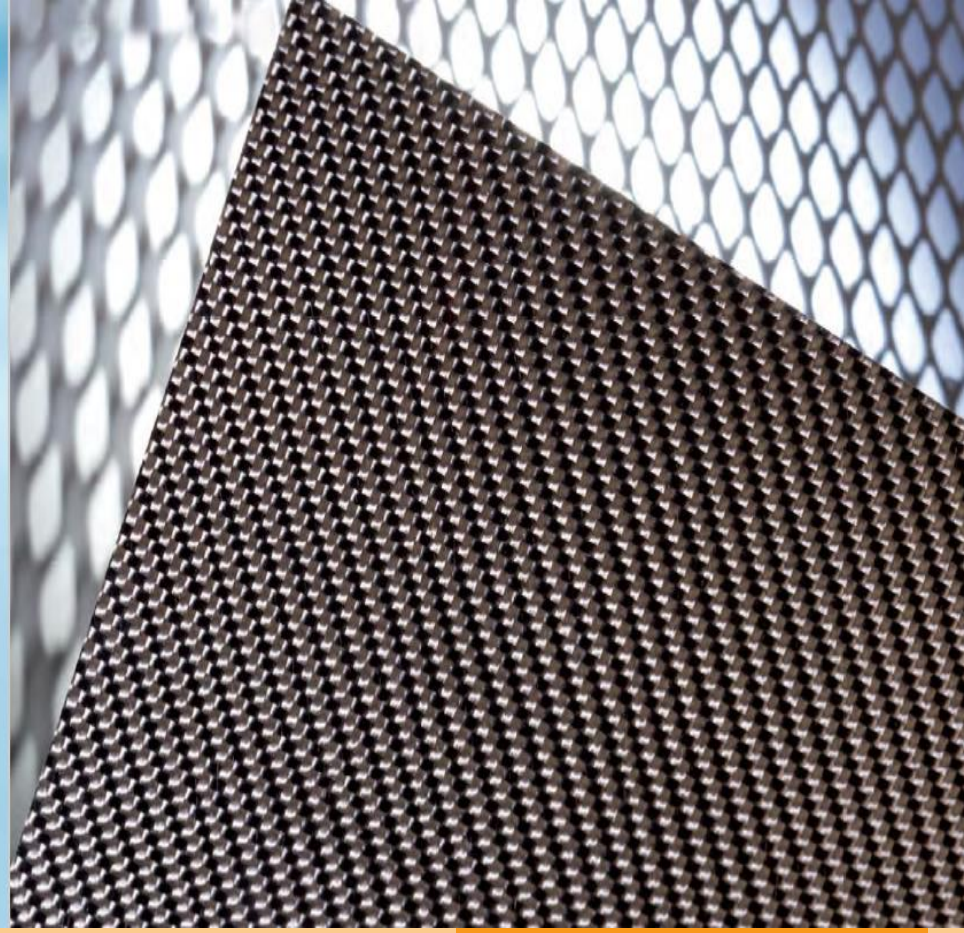

Ultrason® E 2020 P SR

PESU with OH-Endgroups

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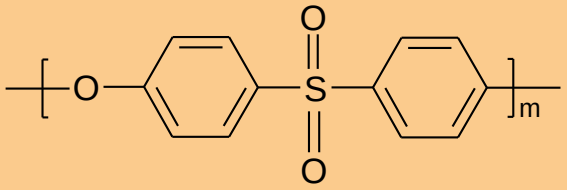
Ultrason® E (PESU)
Core Product Range



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	grade	characteristic features
Pellets	Ultrason® E 1010 NAT	low viscosity, easy flowing, lower toughness mainly injection molding
	Ultrason® E 2010 NAT	medium viscosity, standard injection molding / extrusion
	Ultrason® E 3010 NAT	high viscosity, toughness and chem. stability extrusion/injection molding
Flakes	Ultrason® E 2020 P	medium viscosity, solution processing
	Ultrason® E 2020 P SR	OH-terminated grade for coatings / resins
	Ultrason® E 6020 P	very high viscosity, solution processing

Ultrason® E 2020 P SR
OH-terminated PESU
for ‚Structural Resins' and ‚Non-Stick'

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- PESU is used in composite applications as a modifier in concentrations up to 20 pbw:
  - viscosity adjustment
  - impact modifier (≥30% higher impact resistance)
  - improved flame resistance

- PESU is used in non-stick applications and coatings
  - binder (e.g. for PTFE)
  - 'coupling agent' to metal surfaces
  - chemically resistant coating component

Ultrason® E 2020 P SR
OH-terminated PESU
for ‚Structural Resins' and ‚Non-Stick'

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- key properties
  - Mw comparable to Ultrason® E 2020 P
  - high glass transition temperature (Tg): 225°C
  - limiting oxygen index (LOI) of PESU: 38%
  - soluble in NMP, DMAc, DMF,...
  - OH-groups of total end groups >50% (typically >70%)
  - K^+ up to 500 ppm *
  - residual humidity <2% (typically <1%)
  - residual monomers <200 ppm
  - residual solvent (NMP) max. 100 ppm
  - shipped as flakes for easier dissolution

* subject to change

Product Disclaimer

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The data contained in this presentation are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.

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