

Product Information Ultrason® E

2020 P SR micro

09/2013

PESU**Product description**

Fine Polyethersulfone powder, e.g. for membrane applications, coatings and resin modification, containing min. 50% of OH-endgroups. The product has a typical particle size below 100 µm and is soluble in N-methyl-pyrrolidone (NMP) and N,N-Dimethylacetamide (DMAc). This grade is not suitable for thermoplastic moulding / extrusion. Abbreviated designation according to ISO 1043-1: PESU

Physical form and storage

Ultrason® powder is supplied in 120 l PE drums. The bulk density ranges between 250 and 350 g/l. Provided the packaging remains undamaged, Ultrason® can be stored indefinitely. Ultrason® powder contains moisture. The product can be dried if necessary. Suitable drying conditions are: 4h at 130°C to 150°C in a vacuum or dry air drier.

Product safety

The product can cause dust explosions. Formation of dust must be avoided. Adequate precautions against electrostatic charging must be taken. The figures laid down for the maximum allowable dust concentrations (e.g. MAK value in Germany) must be met in further processing. The work place must be well ventilated. Irrespective of this, all precautions relating to accident prevention must strictly be taken. From our experience and information, proper treatment and reasonable use of the product will not have any health hazardous effects. In view of the high temperatures involved in processing Ultrason®, great care must be taken. If the normal precautions are taken and the upper temperature limit, i.e. 390°C, is not exceeded, no health hazardous vapors are formed by Ultrason® while it is being processed. As all polymers, Ultrason® decomposes on exposure to excessive heat.

Note

The data contained in this publication 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. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

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Product Information

Typical values for uncoloured product at 23 °C ¹⁾	Test method ²⁾	Unit	Values ³⁾
Properties			
Polymer abbreviation	-	-	PESU
Viscosity number (in 0,01 g/ml Phenol/1,2, ortho-Dichlorbenzol, 1:1)	ISO 307, 1157, 1628	cm ³ /g	59
Moisture absorption, equilibrium 23°C/50% r.h.	similar to ISO 62	%	1.00
Apparent density	ISO 60	g/cm ³	0.3
Molecular weights			
Molecular weight Mw (GPC in DMAc, PMMA standard)	-	g/mol	55000

Footnotes

- 1) If product name or properties don't state otherwise.
 2) Specimens according to CAMPUS.
 3) The asterisk symbol "*" signifies inapplicable properties.

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