PRODUCT INFORMATION



Empera

124N GPPS Product Data Sheet

GENERAL PROPERTIES

Empera 124N is a general purpose polystyrene grade with a good flow characteristic and an improved heat resistance.

PHYSICAL PROPERTIES (TYPICAL VALUES)

Property				
	Value	Unit	Standard	Method
Volume melt-flow rate MVR	12	cm ³ /10	ISO 1133	200 °C/5 kg
		min		
Vicat softening temperature VST	87	°C	ISO 306	B50/oil
Charpy impact strength at 23 °C	10	kJ/m ²	ISO 179	1eU
Tensile stress at break	50	MPa	ISO 527-2	50 mm/min
Nominal strain at break	2	%	ISO 527-2	50 mm/min
Tensile modulus	3200	MPa	ISO 527-2	1 mm/min
Flexural strength	80	MPa	ISO 178	2 mm/min
Ball indentation hardness H	150	N/mm ²	ISO 2039-1	358 N/30 s
Density	1040	kg/m³	ISO 1183	
Water absorption (after 24 h)	< 0.1	%	ISO 62	
Temp. of deflection under load HDT/A	78	°C	ISO 75-2	1.8 MPa
Thermal conductivity	0.16	W/m·K	DIN 52 612	
Mean therm. coefficient of linear	0.8-10 ⁻⁴	K ⁻¹	DIN 53 752	(23 - 80)°C
expansion				
Processing shrinkage	0.4-0.6	%	ISO 294-4	

PROCESSING

Empera 124N can be processed by all methods normally used for polystyrene. It is well balanced in its flow characteristic and heat resistance and is so used preferably for injection moulding. It can be extruded as a blend component with high impact grades and as a gloss layer of thermoformed foils and sheets.

EXAMPLES OF APPLICATION

Screw caps, cups, containers, sorting boxes, display stands, Petri dishes, cuvettes, pipettes, record and cassette stands.

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SUPPLY FORM

Empera 124N can be supplied in two versions, without or with an external additive for improving pneumatic conveying. "L" as a suffix to the grade designation characterises the version with this agent, i.e. Empera 124L. Empera 124N is supplied as cylindrical pellets, packed in 25 kg bags or bulk.

REGULATORY COMPLIANCE

On request, we will be happy to provide you with Regulatory Compliance Statements (RCSs) that affirm our products' conformity to various EU legislations, including food contact. Standard RCSs are available for legislations on RoHS (Return of Hazardous Substances), WEEE (Waste Electrical and Electronic Equipment), Packaging Waste et al. We can also provide declarations confirming the absence of heavy metals and a range of other substances subject to restrictions under EU Marketing and Use Directives, or prohibited under national laws and Company Standards. Please contact us for up-to-date regulatory information on any of our products.

FOOD CONTACT COMPLIANCE STATEMENT

Please be informed that Empera 124N complies with the following positive lists/ approvals for food-contact materials and articles:

EU (European Union): Regulation (EU) No 10/2011 as amended, Annex I (Union list of authorised substances).

Manufacturers using the above product for the fabrication of finished products intended to come into contact with food are responsible for compliance by adequate testing or recognized model calculations (eg. MigraPass). They are also required to comply with the general regulatory requirement that these products do not bring about an unacceptable change in the composition of the foodstuffs or a deterioration in the organoleptic characteristics thereof.

NOTE

The data contained in this publication are based on our current knowledge and experience. Because many factors 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. Responsibility for use, storage, handling and disposal of the product described herein is that of the purchaser or end user. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.