INEOS Styrenics

GPPS MICROGRANULATE
(POLYSTYRENE 130M)

PRODUCT DATA SHEET

Polystyrene 130M

General properties
130M is a general purpose polystyrene grade with excellent flow properties and has a high surface to volume rate.

Physical properties (typical values)

Property	Value	Unit	Standard	Method
Volume melt-flow rate MVR	**25**	cm^3/10 min	ISO 1133	200 °C/5 kg
Vicat softening temperature VST	**85**	°C	ISO 306	B50/oil
Charpy unnotched impact strength at 23 °C	**10**	kJ/m^2	ISO 179	1eU
Tensile stress at break	**45**	MPa	ISO 527-2	50 mm/min
Nominal strain at break	**2**	%	ISO 527-2	50 mm/min
Tensile modulus	**3300**	MPa	ISO 527-2	1 mm/min
Flexural strength	**61**	MPa	ISO 178	2 mm/min
Density	**1040**	kg/m^3	ISO 1183	
Water absorption (after 24 h)	**< 0.1**	%	ISO 62	
Temp. of deflection under load HDT/A	**75**	°C	ISO 75-2	1.8 MPa
Thermal conductivity	**0.16**	W/m·K	DIN 52 612	
Mean therm. coefficient of linear expansion	**$0.8 \cdot 10^{-4}$**	K^{-1}	DIN 53 752	(23 - 80)°C
Processing shrinkage	**0.3-0.6**	%	ISO 294-4	

Processing
130M can be processed by all methods normally used for polystyrene.

Examples of application
Due to the high surface to volume rate makes 130M ideal as a master batch carrier.

Supply form
130M is supplied as micro granulate, packed in 25 kg bags or bulk.