

# Technical Data Sheet

## Graphene platelets

Revision Date: 04/17/2024

Date Issued: 04/17/2024

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

<b>Product name</b>	Graphene platelets
<b>Product code</b>	CP-0067-HP
<b>CAS</b>	1034343-98-0
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 - 898390
<b>Fax</b>	+49 (0)7131 - 89839109
<b>Emergency telephone</b>	+49 (0)151-41255671

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	Graphene
<b>CAS No.</b>	1034343-98-0
<b>Empirical Formula</b>	C
<b>Molecular weight</b>	12.01 g/mol
<b>Purity</b>	99.5%
<b>Thickness</b>	6 - 8 nm
<b>Average Particle Diameter</b>	15 µm
<b>Specific Surface Area</b>	120 - 150 m <sup>2</sup> /g
<b>Electrical Conductivity</b>	10 <sup>7</sup> S/m (parallel to surface) 10 <sup>2</sup> S/m (perpendicular to surface)

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<b>Thermal Conductivity</b>	3000 W/mK (parallel to surface) 6 W/mK (perpendicular to surface)
<b>Density</b>	2.2 g/cm <sup>3</sup>
<b>Bulk density</b>	0.03 – 0.1 g/cm <sup>3</sup>
<b>Thermal expansion</b>	4 - 6 *10 <sup>-6</sup> (m/m/°K) (parallel to surface) 0.5 – 1 -10 <sup>-6</sup> (perpendicular to surface)
<b>Tensile Modulus</b>	1000 GPa (parallel to surface)
<b>Tensile Strength</b>	5 GPa

### 3 OTHER INFORMATION

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