

## heXo-G V Product Datasheet

### heXo-G V4, Few Layer Graphene (FLG):

The **heXo-G V4** is a high performance versatile few layer graphene with average thickness of 4 to 6 nm (8-12 layers) and flake size of 3  $\mu\text{m}$ . **heXo-G V4** offers excellent dispersion and provides high thermal conductivity and barrier properties to materials. It's high dispersibility and surface area help attain significant performance improvements with minimal loadings of graphene. heXo-G V4 is particularly suited for thermosets and coatings, sensors, supercapacitors and fuel cells.

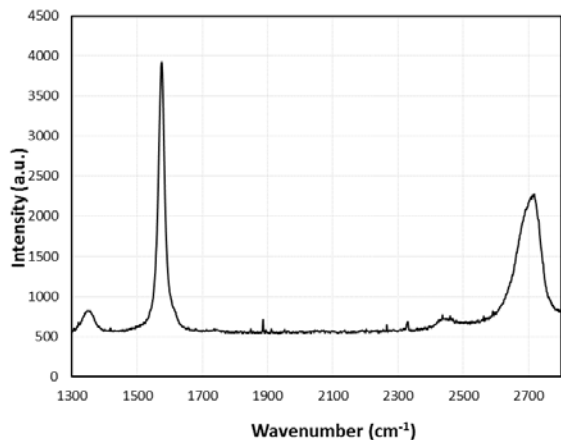
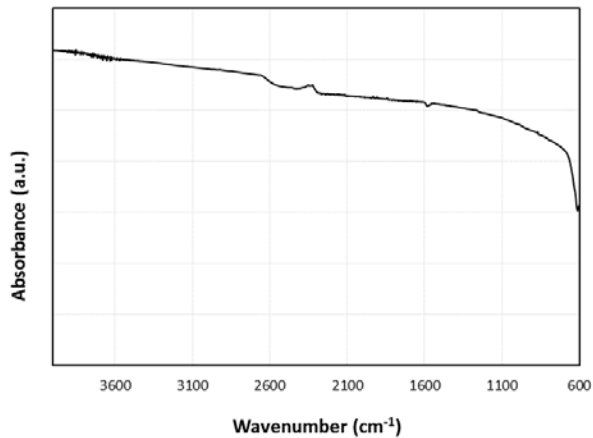
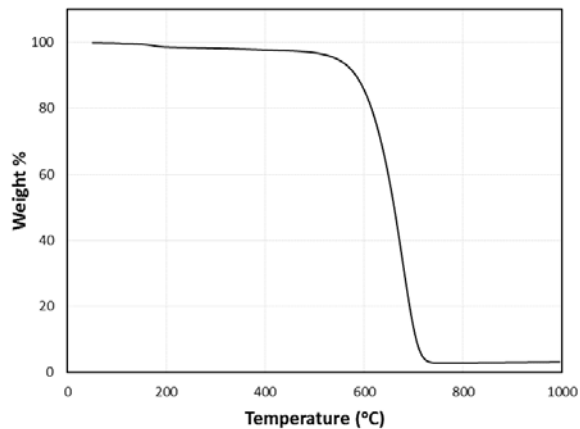
### heXo-G V20, Graphene NanoPlatelet (GNP):

The **heXo-G V20** is a versatile and low-cost graphene nanoplatelet with average thickness of 20 nm (40 layers) and flake size of 50  $\mu\text{m}$ . **heXo-G V20** provides high electrical conductivity while enhancing the thermal, mechanical and barrier properties of materials. It is particularly well suited for thermoplastics manufactured involving a high shear, twin screw extrusion process which can separate and further disperse the particles to achieve significant improvements with small additions of graphene. **heXo-G V20** is also an ideal nanomaterial which can enhance the conductivity of next generation graphite-, silicon- and sulfur-based battery electrodes.

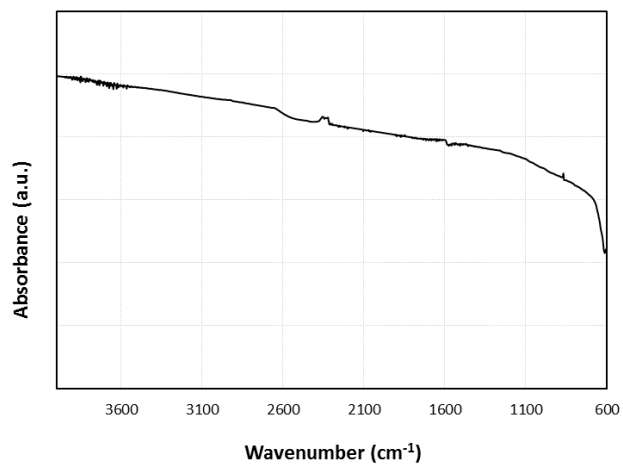
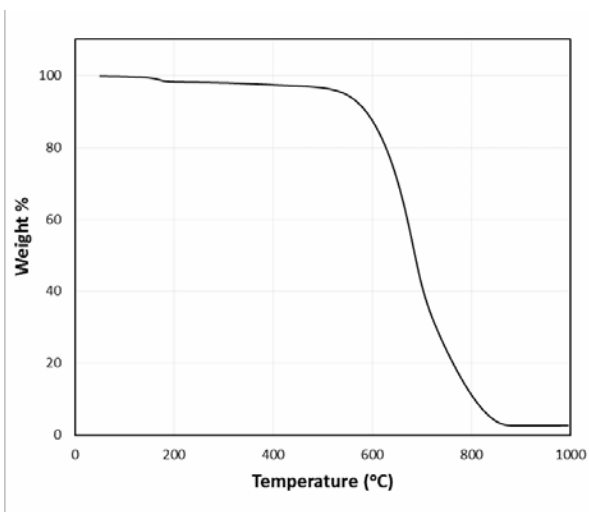
	heXo-G V4	heXo-G V20	
<b>Properties</b>			
Average thickness	4-6	20	nm
Average flake size	3	50	$\mu\text{m}$
Bulk density	0.13	0.24	$\text{g}/\text{cm}^3$
Surface area (BET method)	100-150	30	$\text{m}^2/\text{g}$
<b>Content</b>			
Appearance	Light Powder	Powder	
Carbon content	> 93	> 92	wt.%
Oxygen content	< 4	< 5	wt.%
Ash content	2.7	2.5	wt.%
Moisture	< 0.5	< 0.6	wt.%
<b>Applications &amp; Benefits</b>			
Electrical conductivity	**	***	
Thermal conductivity	***	***	
Liquid dispersion	***	*	
Mechanical strengthening	**	**	
Moisture and oxygen barrier	***	**	
Typical applications	Thermosets, thermoplastics and coatings, antistatic and EMI shielding, sensors, thermal interface materials, UV resistance, supercapacitors	Thermoplastics, conductive/ESD composites, thermal conductivity, material strengthening, battery electrodes	

This data sheet is intended for general information only. The provided information is the most accurate available at the time of preparation.

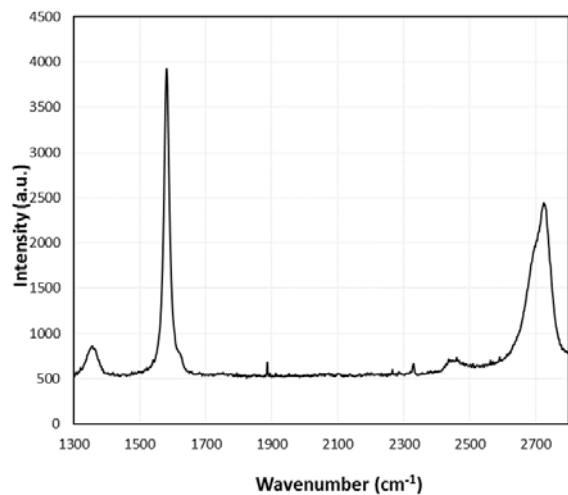
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