

Kelvinite 2100

Halogen-Free Flame Retardant Polypropylene Compound and Sheet Goods

Description	Highland Kelvinite 2100 is an antimony-free and halogen-free flame retardant polypropylene (FRPP), free from Bromine, Chlorine and Fluorine. Kelvinite 2100 meets V-0 UL94 at 0.017", and VTM-0 at 0.010", and is designed as an environmentally-friendly alternative to halogenated FRPPs. It is suitable for a wide range of electrical and thermal insulation applications.		
Key Benefits	<ul style="list-style-type: none"> • Extruded sheet or roll goods act as a fire retardant barrier. • Easy to process using thermoforming, die cutting, knife cutting, or kiss cutting. • Extruded material is available in a range of thicknesses from 0.010" to 0.250". • Manufactured in the USA with a 4 week lead time. • Corona treatment available. 		
Forms	<ul style="list-style-type: none"> • Pelletized compound - 1,000 lb. container, 3' x 3' x 5' • Extruded sheet or rollstock - custom sizes available 		
Appearance	Black		
Flammability Properties	Property	Nominal	Method
	Flammability	VTM-0, V-0	UL 94
	Halogen-free, zero-drip, char forming	Yes	UL 94
Mechanical and Physical Properties	Property	Nominal	Method
	Tensile Yield	900 psi	ASTM D882
	Izod Impact	310 J/m	ASTM D-256
	Elongation	300 %	ASTM D-882
	Flex Modulus	120,000 psi	ASTM D-790
	Living Hinge Performance (cycles)	>225,000	MIT Testing Procedure @ 0.010"
	Density	1.26	ASTM D-792

Please contact your Highland Sales Representative to request regulatory information and safety data sheet.

Disclaimer:

The information contained in this document is for informational purposes only and should not be used as a substitute for testing to ensure that this product is suitable for its intended use. It is the sole responsibility of the user to determine the suitability of this product for the uses and applications intended by the user or others, to ensure compliance with all federal, state, and local laws, rules, and regulations, and to obtain all necessary certifications, permits, and authorizations. All products supplied by Highland Plastics, Inc. or any of its affiliates or subsidiaries are subject to Highland Plastics, Inc.'s terms and conditions of sale. Highland Plastics does not make, and expressly disclaims, any warranty, express or implied, concerning the product, including the merchantability or fitness of the product for any particular purpose, or concerning the accuracy of any information provided herein. Nothing contained herein constitutes an offer for the sale of any product.

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Electrical Properties	Property	Nominal	Method
	Volume Resistivity	1 x 10 ¹⁴ ohm-cm	ASTM D257
	Breakdown Voltage @ 0.030"	7.5 kV	ASTM D150
	Dissipation Factor	0.0829	ASTM D150
	High Voltage Arc Tracking	0 PLC	UL746a
	Hot Wire Ignition	0 PLC	UL746a
	Comparative Tracking Index	0 PLC / 600V	ASTM D3638

Notes

Kelvinite flame-retardant polypropylenes are ideal for automotive and electrical applications and are backed by a robust domestic supply chain when available. Compounded and extruded in Michigan, USA.

We offer halogenated and non-halogenated Kelvinite formulations to meet automotive and non-automotive flammability standards at low gauges.

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