

Vydyne / Solutia Website Content Development

Original (supplied by client engineers)	Revised (by Jan Niehaus)
<p style="text-align: center;"><u>Vydyne Nylon for Electrical/Electronic Applications</u></p> <p>Nylon 66 is one of the most cost effective engineering thermoplastics available for electrical and electronic applications. Demands on these applications are changing every day and Vydyne® nylon has proven it can meet difficult requirements. Vydyne grades are used in connectors, relays, switches, plugs, housings, cables, buttons and knobs, I/O ports, insulators, face plates, transformers, terminal blocks, coil bobbins, as well as a variety of other electrical and electronic components.</p> <p>Vydyne nylon grades exhibit excellent strength, toughness, abrasion resistance, chemical resistance, dimensional stability, flame resistance and electrical properties.</p> <p>Vydyne nylons exhibit a high melting point (260° C) and are highly crystalline. This imparts high strength, toughness, abrasion and chemical resistance at elevated temperatures. Components can withstand damage during the assembly process, including through-hole soldering, as well as survive difficult end use environments.</p> <p>Vydyne flow properties are outstanding and it has inherently fast crystallization rates compared to other engineering thermoplastics. These characteristics provide Vydyne nylon with the ability to fill complex, thin wall parts and reduce injection molding cycle times.</p>	<p style="text-align: center;">Electrical and Electronics</p> <p>Vydyne nylon (polyamide) 66 is one of the most cost-effective engineering thermoplastics available to you and your designers. You can use Vydyne with confidence in your electrical and electronic applications, including connectors, relays, switches, plugs, housings, cables, buttons and knobs, input/output ports, insulators, face plates, transformers, terminal blocks, and coil bobbins.</p> <p>Vydyne resins are highly crystalline and exhibit a high melting point (500°F / 260°C). Because of these attributes, your products will be strong, tough, abrasion-resistant, and resistant to chemicals at elevated temperatures. If made from Vydyne, your components will withstand abuse during the assembly process, including through-hole soldering, and they will survive the difficult environments of your end-users.</p> <p>Solutia's expert applications development specialists help your engineers and designers develop innovative and cost-effective nylon solutions to satisfy your design criteria.</p> <p>Click here for a link to our U.L. listings.</p> <p>Vydyne nylon 66 offers exceptional:</p> <ul style="list-style-type: none"> • High crystallinity • Electrical insulating properties • Long-term heat resistance

<p>Vydyne nylon has excellent dielectric strength and comparative tracking index and is also V2 flame rated. This makes Vydyne nylon the right choice for high and low voltage circuit applications.</p> <p>The long term heat aging resistance (Relative Temperature Index) of Vydyne nylon is comparable to PBT, ensuring Vydyne parts can withstand long term exposure to elevated temperatures.</p> <p>Vydyne nylon resins have been developed for a wide range of physical properties and application requirements. General purpose grades are designed for high productivity and can also be heat stabilized for elevated temperature use. Glass and/or mineral reinforced grades provide extra strength and improved resistance to deflection at elevated temperatures (HDT). Impact grades are available for extra toughness at low temperatures. Flame resistant grades are designed for resistance to high voltage or current applications. In addition, Solutia’s application development specialists can develop new grades specifically to meet the unique requirements of many applications.</p> <p>Contact Brad Carmody today!!!!!!!!!!!!!! ☺</p>	<table border="0"> <tr> <td data-bbox="1115 297 1325 378">High crystallinity</td> <td data-bbox="1409 297 1881 492">Flow properties are outstanding and the inherently fast crystallization rates provide Vydyne nylon with the ability to fill complex, thin wall parts as well as reduce injection molding cycle times.</td> </tr> <tr> <td data-bbox="1129 553 1310 675">Electrical insulating properties</td> <td data-bbox="1409 553 1892 781">Excellent dielectric strength and comparative tracking index combined with an inherent V2 flame rating, which can be reduced to V0. This makes Vydyne nylon the right choice for high- and low-voltage circuit applications.</td> </tr> <tr> <td data-bbox="1077 841 1346 922">Long-term heat resistance</td> <td data-bbox="1409 841 1892 1138">The long-term, heat-aging resistance of Vydyne nylon (measured on the Relative Temperature Index) is comparable to the long-term heat resistance of polybutylene terephthalate (PBT). This means that Vydyne parts can withstand long-term exposure to elevated temperatures.</td> </tr> </table>	High crystallinity	Flow properties are outstanding and the inherently fast crystallization rates provide Vydyne nylon with the ability to fill complex, thin wall parts as well as reduce injection molding cycle times.	Electrical insulating properties	Excellent dielectric strength and comparative tracking index combined with an inherent V2 flame rating, which can be reduced to V0. This makes Vydyne nylon the right choice for high- and low-voltage circuit applications.	Long-term heat resistance	The long-term, heat-aging resistance of Vydyne nylon (measured on the Relative Temperature Index) is comparable to the long-term heat resistance of polybutylene terephthalate (PBT). This means that Vydyne parts can withstand long-term exposure to elevated temperatures.
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<p>Note to Reviewers: Underlining indicates a hyperlink.</p>							