



Vydyne® PA66 compounds have been specified in electrical and electronic applications for many years. Plastic components in these applications are subject to exacting regulatory requirements, including fire safety standards. They also must demonstrate superior mechanical and thermal performance while maintaining dimensional integrity. The performance, quality and consistency of our products make the difference in your applications.

Products Used: 21SPF, 20NSP, 22HSP, 47H, R535J, ECO315J, ECO366H

Application Description

An electrical connector is an electromechanical device for joining electrical circuits as an interface using a mechanical assembly. Connectors consist of plugs (male-ended) and jacks (female-ended). The connection may be temporary, as for portable equipment, require a tool for assembly and removal, or serve as a permanent electrical joint between two wires or devices. Connectors made out of PA66 are excellent electrical insulators, resist fire hazard, and are durable enough to withstand stresses associated with mechanical assembly.



For more information, see your Ascend representative or visit www.ascendmaterials.com.

Vydyne Solutions

Product			21SPF	20NSP	22HSP	47H	R535J	ECO315J	ECO366H
Characteristics			<ul style="list-style-type: none"> Fast-cycling Opaque Mold release 	<ul style="list-style-type: none"> Nucleated Fastest-cycling Opaque Mold release 	<ul style="list-style-type: none"> Heat-stabilized/higher RTIs f1-rated 	<ul style="list-style-type: none"> Impact-modified Heat-stabilized 	<ul style="list-style-type: none"> 35% GF PA66 High flow Electrically neutral stabilization 	<ul style="list-style-type: none"> Unfilled PA66/6 Halogen-free High elongation 	<ul style="list-style-type: none"> Unfilled PA66 Halogen-free
Property	Test Method	Units							
Flame Class	UL 94	—	V-2, 0.4 mm	V-2, 0.4 mm	V-2, 0.71 mm	HB, 0.75 mm	HB, 0.75 mm	V-0, 0.4 mm	V-0, 0.4 mm
Hot-wire Ignition (HWI)	UL 746A	PLC	PLC 4, 0.71 mm PLC 3, 1.5 mm	PLC 4, 0.71 mm PLC 3, 1.5 mm	PLC 4, 0.71 mm PLC 4, 1.5 mm	PLC 4, 0.75 mm PLC 4, 1.5 mm	PLC 4, 0.75 mm	PLC 4, 0.4 mm PLC 3, 3.0 mm	PLC 4, 0.4 mm PLC 3, 0.75 mm PLC 2, 3.0 mm
High Amp Arc Ignition (HAI)	UL 746A	PLC	PLC 0, 0.71 mm	PLC 0, 0.71 mm	PLC 0, 0.71 mm	PLC 0, 0.75 mm	PLC 0, 0.75 mm	PLC 0, 0.4 mm	PLC 0, 0.4 mm
Comparative Tracking Index (CTI)	IEC 60112	PLC	PLC 0	PLC 0	PLC 1	—	PLC 0	PLC 0	PLC 0
Dielectric Strength	IEC 60243	kV/mm	26	26	—	12	20	13	17
Relative Thermal Index (RTI), Electrical	UL 746B	°C	130, 0.4 mm	130, 0.4 mm	140, 0.71 mm	130, 0.75 mm	120, 0.75 mm	130, 0.4 mm	150, 0.4 mm