



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: 21SPC, 21SPF, 20NSP

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

Application Description

A wall plate is a cover designed to enclose a box containing plug receptacles, switches, GFCI and more. It is designed to mount against the wall and cover the edges of the opening that contains the electrical box. The cover is attached directly to the wiring device and provides protection to the user from coming into contact with live electrical components.

A receptacle is a device designed to receive a plug and complete an electrical connection. The receptacle holds the contacts in place and provides electrical insulation to ground and the user. It is typically contained within a receptacle box and is covered with a wall plate.

Wall plates and receptacles are required to possess good insulating properties, be resistant to household chemicals and UV light and have a pleasing appearance.



Vydyne Solutions

Product			21SPC	21SPF	20NSP
Characteristics			<ul style="list-style-type: none"> • Translucent • Mold release 	<ul style="list-style-type: none"> • Fast-cycling • Opaque • Mold release 	<ul style="list-style-type: none"> • Nucleated • Fastest-cycling • Opaque • Mold release
Property	Test Method	Units			
Flame Class	UL 94	—	V-2, 0.4 mm	V-2, 0.4 mm	V-2, 0.4 mm
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 3, 1.5 mm
HAI	UL 746A	PLC	PLC 0, 0.71 mm	PLC 0, 0.71 mm	PLC 0, 0.71 mm
Comparative Tracking Index (CTI)	IEC 60112	PLC	PLC 0	PLC 0	PLC 0
Dielectric Strength	IEC 60243	kV/mm	26	26	26
High-voltage Arc Tracking Rate (HVTR)	UL 746A	PLC	PLC 0	PLC 0	PLC 0
Inclined-plane Tracking (IPT)	IEC 60587	minutes	120 at 1 kV	120 at 1 kV	120 at 1kV
High-voltage, Low-current Arc Resistance	ASTM D495	PLC	PLC 5	PLC 5	PLC 5