



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, 22HSP, ECO315J, ECO366H

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

Application Description

A cable gland is a device for connecting a cable to a piece of equipment. The gland holds the connecting cable and provides a strain-relief mechanism to prevent damage. The gland is used as a sealing and/or termination device to ensure the device's enclosure maintains integrity. The cable gland may also be used to make connections through a wall, bulkhead or gland plate.

Cable glands must resist mechanical forces during assembly and in operation to maintain dimensions throughout their design life.



Vydyne Solutions

Category			General-purpose, unfilled			Non-halogenated, flame-retardant grades	
Product			21SPC	21SPF	22HSP	ECO315J	ECO366H
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"> • Heat-stabilized/ higher RTIs • f1-rated 	<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	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, 0.4 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, 0.4 mm	PLC 0, 0.4 mm
Comparative Tracking Index (CTI)	IEC 60112	PLC	PLC 0	PLC 0	PLC 1	PLC 0	PLC 0
Dielectric Strength	IEC 60243	kV/mm	26	26	—	13	17
High-voltage Arc Tracking Rate (HVTR)	UL 746A	PLC	PLC 0	PLC 0	PLC 0	PLC 1	PLC 0
Inclined-plane Tracking (IPT)	IEC 60587	minutes	120 at 1 kV	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 6	PLC 5	PLC 5