Summary of Product Options

		Covers Available		Cover Attachment Options				Mount Options	
Base Number Size	Size	Opaque Cover (none)	Clear Cover (CC)	Screw Cover (none)	Hinged Screw Cover (H)	Hinged Nonmetal Latch (NL)	Hinged Snap Latch (L)	Foot Mount (none)	Flange Mount (F)
AMP664	6x6x4	✓	✓	✓	✓	✓	✓	✓	✓
AMP864	8x6x4	✓	✓	✓	✓	✓	✓	✓	✓
AMP1084	10x8x4	✓	✓	✓	✓	✓	✓	✓	✓
AMP1206	12x10x6	✓	✓	✓	✓	✓	✓	✓	✓
AMP1426	14x12x6	✓	✓	✓	✓	✓	✓	✓	✓

Polyline™ Physical Properties

Enclosure Material Typical Properties	ASTM Test Method	Polycarbonate	Cover Seal-Closed Cell Neoprene
Impact Strength (ft - lb/in)	D 256	12	
Flexural Strength (psi)	D 790	13,000	
Tensile Strength (psi)	D 638	9,000	1,500
Compressive Strength (psi)	D 695	11,000	
Water Absorption (%)	D 570	0.25	5.00
Specific Gravity	D 792	1.20	1.23
Shrinkage in/in	D 955	0.007	
Hardness (Barcol-Rockwell M-Shore A)	D 2583	75	45
Elongation (%)	D 638	7.00	350
Dielectric Strength (kV/in)	D 149	732	
Arc Resistance (sec)	D 495	117	
Flammability	UL 94	V-0	V-0
Heat Deflection (°F at 264 psi)	D 648	266	
Service Temperature (°F)		-31°F to 266°F	-31°F to 225°F
K Factor, Thermal Conductivity (BTU/hr/ft2/°F/in)	D1269E	1.25	
Thermal Expansion (10^{-6} in/in°F)	D 696	36	
UV Rating	UL 746C	(f1)	

Certificate of Conformance to Industry Standards

Polyline™ Industrial enclosures manufactured by Allied Moulded Products, Inc. and bearing the UL® and CSA labels have been tested and certified to the following standards:

UL 50	Enclosures For Electrical Equipment
UL 50E	Enclosures For Electrical Equipment, Environmental Considerations
UL 508A	Industrial Control Panels
UL 746C	Polymeric Materials – Use In electrical Equipment Evaluations
CSA-C22 No. 14	Industrial Control Equipment
CAN/CSA-C22 No. 94	Special Purpose Enclosures

Allied Moulded Products AMP Series Polyline™ enclosures are certified:

UL types 1, 2, 3, 4, 4X, 12 and 13

CSA types 1, 2, 3, 3R, 4, 4X, 12 and 13

NEMA types 1, 2, 3, 3R, 4, 4X, 12 and 13

General Enclosure Specifying Guidelines

	Metal Enclosures			Nonmetal Enclosures			
	304 SS	316 SS	Painted CS	Polycarbonate	Compression FRP	Gelcoat FRP	Custom PVC
Cost	4	5	1	2	3	4	4
Weight	5	5	5	2	3	3	2
Impact (flex)	N/A	N/A	N/A	4	3	3	2
Flex Strength (rigidity)	N/A	N/A	N/A	13,000 psi	23,000 psi	33,400 psi	10,500 psi
MFG Process Type	Fabricated sheet	Fabricated sheet	Fabricated sheet	Injection Mold	Compression Mold	Open Mold	Fabricated sheet
Size Limits	Custom NL	Custom NL	Custom NL	Typically up to 18" Max	Typically up to 36" Max	Typically 36" up to 90"	Custom NL
Outdoor Corrosion (rating)	NEMA 4	NEMA 4X	NEMA 4	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4

Note: Those categories containing rating numbers are based on 1 as low and 5 as high.

Corrosion Resistance Guidelines

	Solvents	Alkalis	Mild Acids
Examples	*cleaning solvents* *carbon tetrachloride* *isopropyl alcohol* *perchlorethylene* *toluene* *xylene*	*ammonium chloride* *ammonium nitrate* *calcium hydroxide* *calcium hypochlorite* *magnesium hydroxide* *sodium hypochlorite*	*aluminum chloride* *boric acid* *calcium chloride* *potassium nitrate* *sea water* *sodium nitrate* *zinc chloride*
Recommended	304 SS 316 SS Compression Fiberglass Aluminum	304 SS 316 SS	Compression Fiberglass Gelcoat Fiberglass Polycarbonate 304 SS 316 SS
Satisfactory	Painted Carbon Steel Gelcoat Fiberglass	Polycarbonate Gelcoat Fiberglass Compression Fiberglass	Painted Carbon Steel
Limited Use	Polycarbonate	Painted Carbon Steel Aluminum	Aluminum

Note: This chart is only intended to be used as a general guideline for applying "typical" metal and nonmetal enclosures in chemical environments. Allied Moulded Products, Inc. recommends specific material compatibility tests for the most accurate application of enclosures. Please contact Allied Moulded customer service for specific requirements.