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**SPECS &
INFORMATION**

Ezyclamp™ Plastic Worm Drive Hose Clamp
12.7mm Width, 50mm Diameter, Material PA12
Part No. PWD-13-50-WG-PA12-BK

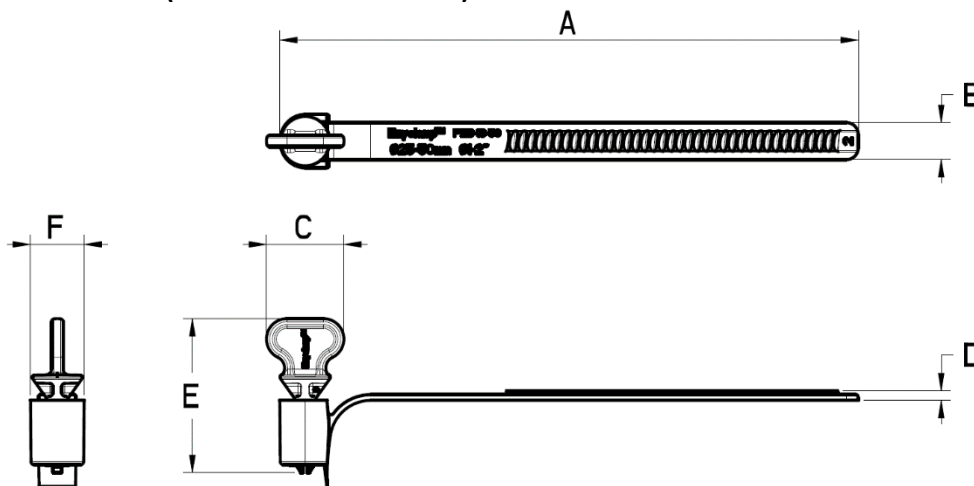


Description

Heavy duty polymer worm drive hose clamp with wing spade



Outline Dimensions (General Tolerance ± 2%)



General Properties PA12 ¹		
Property	Value	Unit
Weight	12.4 (0.44) +/- 2%	g (oz)
Maximum Diameter	54 (2.1)	mm (inch)
Minimum Diameter	25 (0.98)	mm (inch)
Length (A)	198 (7.80)	mm (inch)
Band Width (B)	12.7 (0.5)	mm (inch)
Hex Width (across flats) (C)	8.0 (0.31)	mm (inch)
Band Thickness (D)	3.3 (0.13)	mm (inch)
Head Length inc. Screw (E)	52.8 (2.08)	mm (inch)
Head Width (F)	18.4 (0.72)	mm (inch)

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Main Strap - Material Properties PA12¹

Property	Dry as Moulded	Conditioned 50%RH	Unit	Test Method
Density	1.01 (0.58)		g/cm ³ (oz/inch ³)	ISO 1183
Water Absorption at 23°C Equilibrium at 50% RH Saturation		0.7 1.6	% %	ISO 62 ISO 62
Tensile Modulus +23°C/+73°F	1600 (232)	1100 (160)	MPa (kpsi)	ISO 527-2
Tensile Stress (Yield, +23°C/+73°F)		40 (5.8)	MPa (kpsi)	ISO 527-2
Tensile Stress (Break, +23°C/+73°F)	50 (7.3)	50 (7.3)	MPa (kpsi)	ISO 527-2
Tensile Strain (Yield, +23°C/+73°F)		12	%	ISO 527-2
Tensile Strain (Break, +23°C/+73°F)		>50	%	ISO 527-2
Flexural Modulus	1350 (196)	1100 (160)	MPa (kpsi)	ISO 178
Flexural Strength	60 (8.7)	45 (6.5)	MPa (kpsi)	ISO 178
Charpy Unnotched Impact Strength +23°C/+73°F -30°C/-22°F -55°C/-67°F		>100 (47.6) >100 (47.6)	KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²)	ISO 179 ISO 179 ISO 179
Charpy Notched Impact Strength +23°C/+73°F -30°C/-22°F		7 (3.33) 6 (2.85)	KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²)	ISO 179 ISO 179
Heat Deflection Temperature 0.45 MPa, Unannealed	115 (239)		°C (°F)	ISO 75-2/B
Heat Deflection Temperature 1.82 MPa, Unannealed	45 (113)		°C (°F)	ISO 75-2/A
Vicat Softening Temperature 50N 10N	154 (309) 166 (331)		°C (°F) °C (°F)	ISO 306/B
Melting Temperature	178 (352)		°C (°F)	ISO 11357
Flammability	HB			UL 94
RoHS Compliance	RoHS Compliant			
UL File Number				

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Mechanical Tests:

Property	Test Diameter mm (inch)	System Yield Strength	Unit	Test Speed mm/s
System Tensile Test ²	100 (4)	1570 (160) [353]	N (kgf) [lbf]	10

²Tests carried out using parts and the HCL laboratory at ~20°C and ~50% RH (relative humidity) on a steel half shell pipe arrangement.

Property/ Tool Type	Max Torque Setting Nm (lb/ft)	Test Diameter mm (Inch)	Maximum System Tension after Installation	Unit
System Retention ³ Torque Driver	2.0Nm	100 (4)	1200 (122) [270]	N (kgf) [lbf]

³The system retention is the expected retention or tension after tightening and depends on tool setup and use. Surface friction and the capstan effect may produce different results.

Ezyclamp™ Plastic Worm Drive Hose Clamp 12.7mm Width, 75mm Diameter, Material PA12 Part No. PWD-13-75-WG-PA12-BK

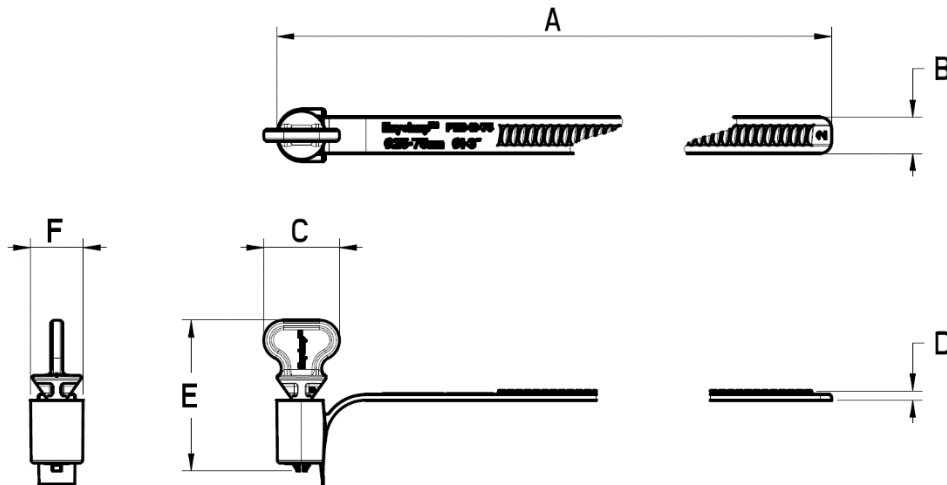


Description

Heavy duty polymer worm drive hose clamp with wing spade



Outline Dimensions (General Tolerance $\pm 2\%$)



General Properties PA12 ¹		
Property	Value	Unit
Weight	14.7 (0.52) $\pm 2\%$	g (oz)
Maximum Diameter	80 (3.15)	mm (inch)
Minimum Diameter	25 (0.98)	mm (inch)
Length (A)	297 (11.7)	mm (inch)
Band Width (B)	12.7 (0.5)	mm (inch)
Hex Width (across flats) (C)	8.0 (0.31)	mm (inch)
Band Thickness (D)	3.3 (0.13)	mm (inch)
Head Length inc. Screw (E)	52.8 (2.08)	mm (inch)
Head Width (F)	18.4 (0.72)	mm (inch)

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Main Strap - Material Properties PA12¹

Property	Dry as Moulded	Conditioned 50%RH	Unit	Test Method
Density	1.01 (0.58)		g/cm ³ (oz/inch ³)	ISO 1183
Water Absorption at 23°C Equilibrium at 50% RH Saturation		0.7 1.6	% %	ISO 62 ISO 62
Tensile Modulus +23°C/+73°F	1600 (232)	1100 (160)	MPa (kpsi)	ISO 527-2
Tensile Stress (Yield, +23°C/+73°F)		40 (5.8)	MPa (kpsi)	ISO 527-2
Tensile Stress (Break, +23°C/+73°F)	50 (7.3)	50 (7.3)	MPa (kpsi)	ISO 527-2
Tensile Strain (Yield, +23°C/+73°F)		12	%	ISO 527-2
Tensile Strain (Break, +23°C/+73°F)		>50	%	ISO 527-2
Flexural Modulus	1350 (196)	1100 (160)	MPa (kpsi)	ISO 178
Flexural Strength	60 (8.7)	45 (6.5)	MPa (kpsi)	ISO 178
Charpy Unnotched Impact Strength +23°C/+73°F -30°C/-22°F -55°C/-67°F		>100 (47.6) >100 (47.6)	KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²)	ISO 179 ISO 179 ISO 179
Charpy Notched Impact Strength +23°C/+73°F -30°C/-22°F		7 (3.33) 6 (2.85)	KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²)	ISO 179 ISO 179
Heat Deflection Temperature 0.45 MPa, Unannealed	115 (239)		°C (°F)	ISO 75-2/B
Heat Deflection Temperature 1.82 MPa, Unannealed	45 (113)		°C (°F)	ISO 75-2/A
Vicat Softening Temperature 50N 10N	154 (309) 166 (331)		°C (°F) °C (°F)	ISO 306/B
Melting Temperature	178 (352)		°C (°F)	ISO 11357
Flammability	HB			UL 94
RoHS Compliance	RoHS Compliant			
UL File Number				

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Mechanical Tests:

Property	Test Diameter mm (inch)	System Yield Strength	Unit	Test Speed mm/s
System Tensile Test ²	100 (4)	1570 (160) [353]	N (kgf) [lbf]	10

²Tests carried out using parts and the HCL laboratory at ~20°C and ~50% RH (relative humidity) on a steel half shell pipe arrangement.

Property/ Tool Type	Max Torque Setting Nm (lb/ft)	Test Diameter mm (Inch)	Maximum System Tension after Installation	Unit
System Retention ³ Torque Driver	2.0Nm	100 (4)	1200 (122) [270]	N (kgf) [lbf]

³The system retention is the expected retention or tension after tightening and depends on tool setup and use. Surface friction and the capstan effect may produce different results.

Ezyclamp™ Plastic Worm Drive Hose Clamp
12.7mm Width, 100mm Diameter, Material PA12
Part No. PWD-13-100-WG-PA12-BK

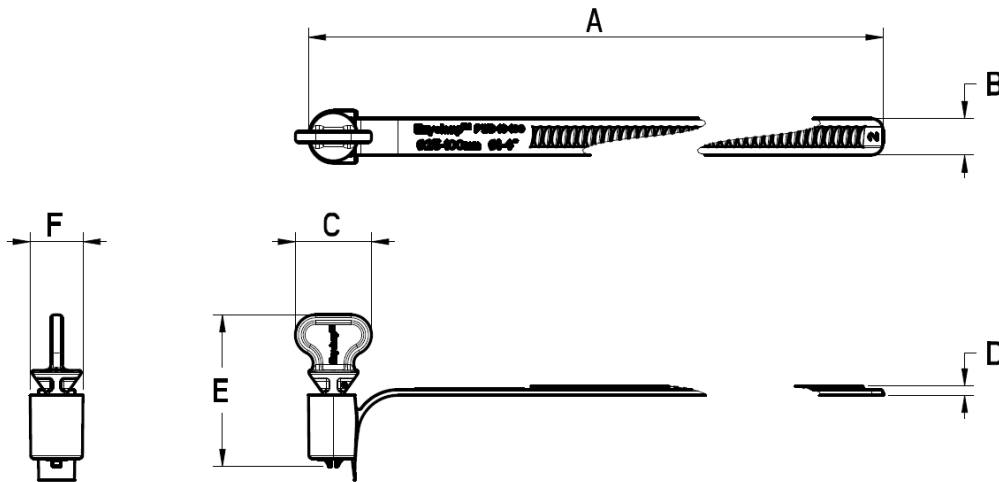


Description

Heavy duty polymer worm drive hose clamp with wing spade



Outline Dimensions (General Tolerance ± 2%)



General Properties PA12 ¹		
Property	Value	Unit
Weight	16.9 (0.56) +/- 2%	g (oz)
Maximum Diameter	109 (4.29)	mm (inch)
Minimum Diameter	25 (0.98)	mm (inch)
Length (A)	360 (14.8)	mm (inch)
Band Width (B)	12.7 (0.5)	mm (inch)
Wing Spade Width (C)	26.5 (1.04)	mm (inch)
Band Thickness (D)	3.25 (0.128)	mm (inch)
Head Length inc. Screw (E)	52.8 (2.08)	mm (inch)
Head Width (F)	18.4 (0.72)	mm (inch)

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Main Strap - Material Properties PA12¹

Property	Dry as Moulded	Conditioned 50%RH	Unit	Test Method
Density	1.01 (0.58)		g/cm ³ (oz/inch ³)	ISO 1183
Water Absorption at 23°C Equilibrium at 50% RH Saturation		0.7 1.6	% %	ISO 62 ISO 62
Tensile Modulus +23°C/+73°F	1600 (232)	1100 (160)	MPa (kpsi)	ISO 527-2
Tensile Stress (Yield, +23°C/+73°F)		40 (5.8)	MPa (kpsi)	ISO 527-2
Tensile Stress (Break, +23°C/+73°F)	50 (7.3)	50 (7.3)	MPa (kpsi)	ISO 527-2
Tensile Strain (Yield, +23°C/+73°F)		12	%	ISO 527-2
Tensile Strain (Break, +23°C/+73°F)		>50	%	ISO 527-2
Flexural Modulus	1350 (196)	1100 (160)	MPa (kpsi)	ISO 178
Flexural Strength	60 (8.7)	45 (6.5)	MPa (kpsi)	ISO 178
Charpy Unnotched Impact Strength +23°C/+73°F -30°C/-22°F -55°C/-67°F		>100 (47.6) >100 (47.6)	KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²)	ISO 179 ISO 179 ISO 179
Charpy Notched Impact Strength +23°C/+73°F -30°C/-22°F		7 (3.33) 6 (2.85)	KJ/m ² (ft-lb/in ²) KJ/m ² (ft-lb/in ²)	ISO 179 ISO 179
Heat Deflection Temperature 0.45 MPa, Unannealed	115 (239)		°C (°F)	ISO 75-2/B
Heat Deflection Temperature 1.82 MPa, Unannealed	45 (113)		°C (°F)	ISO 75-2/A
Vicat Softening Temperature 50N 10N	154 (309) 166 (331)		°C (°F) °C (°F)	ISO 306/B
Melting Temperature	178 (352)		°C (°F)	ISO 11357
Flammability	HB			UL 94
RoHS Compliance	RoHS Compliant			
UL File Number				

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Mechanical Tests:

Property	Test Diameter mm (inch)	System Yield Strength	Unit	Test Speed mm/s
System Tensile Test ²	100 (4)	1570 (160) [353]	N (kgf) [lbf]	10

²Tests carried out using parts and the HCL laboratory at ~20°C and ~50% RH (relative humidity) on a steel half shell pipe arrangement.

Property/ Tool Type	Max Torque Setting Nm (lb/ft)	Test Diameter mm (Inch)	Maximum System Tension after Installation	Unit
System Retention ³ Torque Driver	2.0Nm	100 (4)	1200 (122) [270]	N (kgf) [lbf]

³The system retention is the expected retention or tension after tightening and depends on tool setup and use. Surface friction and the capstan effect may produce different results.

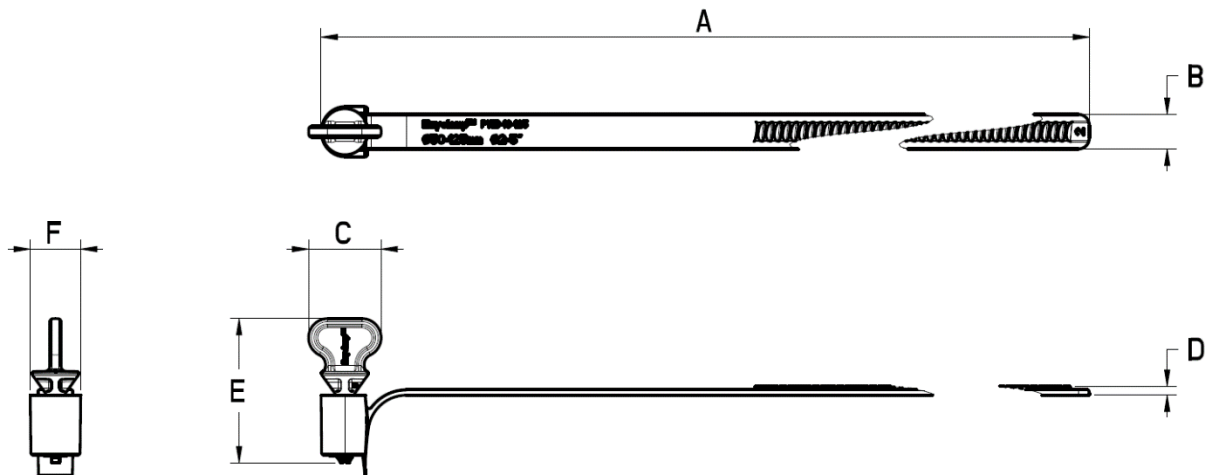
Ezyclamp™ Plastic Worm Drive Hose Clamp
12.7mm Width, 125mm Diameter, Material PA12
Part No. PWD-13-125-WG-PA12-BK

Description

Heavy duty polymer worm drive hose clamp with wing spade



Outline Dimensions (General Tolerance ± 2%)



General Properties PA12¹

Property	Value	Unit
Weight	19.2 (0.68) +/- 2%	g (oz)
Maximum Diameter	130 (5.12)	mm (inch)
Minimum Diameter	50 (1.96)	mm (inch)
Length (A)	441 (17.4)	mm (inch)
Band Width (B)	12.7 (0.5)	mm (inch)
Hex Width (across flats) (C)	8.0 (0.31)	mm (inch)
Band Thickness (D)	3.3 (0.13)	mm (inch)
Head Length inc. Screw (E)	52.8 (2.08)	mm (inch)
Head Width (F)	18.4 (0.72)	mm (inch)

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Main Strap - Material Properties PA12¹

Property	Dry as Moulded	Conditioned 50%RH	Unit	Test Method
Density	1.01 (0.58)		g/cm ³ (oz/inch ³)	ISO 1183
Water Absorption at 23°C Equilibrium at 50% RH		0.7	%	ISO 62
Saturation		1.6	%	ISO 62
Tensile Modulus +23°C/+73°F	1600 (232)	1100 (160)	MPa (kpsi)	ISO 527-2
Tensile Stress (Yield, +23°C/+73°F)		40 (5.8)	MPa (kpsi)	ISO 527-2
Tensile Stress (Break, +23°C/+73°F)	50 (7.3)	50 (7.3)	MPa (kpsi)	ISO 527-2
Tensile Strain (Yield, +23°C/+73°F)		12	%	ISO 527-2
Tensile Strain (Break, +23°C/+73°F)		>50	%	ISO 527-2
Flexural Modulus	1350 (196)	1100 (160)	MPa (kpsi)	ISO 178
Flexural Strength	60 (8.7)	45 (6.5)	MPa (kpsi)	ISO 178
Charpy Unnotched Impact Strength +23°C/+73°F		>100 (47.6)	KJ/m ² (ft-lb/in ²)	ISO 179
-30°C/-22°F		>100 (47.6)	KJ/m ² (ft-lb/in ²)	ISO 179
-55°C/-67°F			KJ/m ² (ft-lb/in ²)	ISO 179
Charpy Notched Impact Strength +23°C/+73°F		7 (3.33)	KJ/m ² (ft-lb/in ²)	ISO 179
-30°C/-22°F		6 (2.85)	KJ/m ² (ft-lb/in ²)	ISO 179
Heat Deflection Temperature 0.45 MPa, Unannealed	115 (239)		°C (°F)	ISO 75-2/B
Heat Deflection Temperature 1.82 MPa, Unannealed	45 (113)		°C (°F)	ISO 75-2/A
Vicat Softening Temperature 50N	154 (309)		°C (°F)	ISO 306/B
10N	166 (331)		°C (°F)	
Melting Temperature	178 (352)		°C (°F)	ISO 11357
Flammability	HB			UL 94
RoHS Compliance	RoHS Compliant			
UL File Number				

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Mechanical Tests:

Property	Test Diameter mm (inch)	System Yield Strength	Unit	Test Speed mm/s
System Tensile Test ²	100 (4)	1570 (160) [353]	N (kgf) [lbf]	10

²Tests carried out using parts and the HCL laboratory at ~20°C and ~50% RH (relative humidity) on a steel half shell pipe arrangement.

Property/ Tool Type	Max Torque Setting Nm (lb/ft)	Test Diameter mm (Inch)	Maximum System Tension after Installation	Unit
System Retention ³ Torque Driver	2.0Nm	100 (4)	1200 (122) [270]	N (kgf) [lbf]

³The system retention is the expected retention or tension after tightening and depends on tool setup and use. Surface friction and the capstan effect may produce different results.

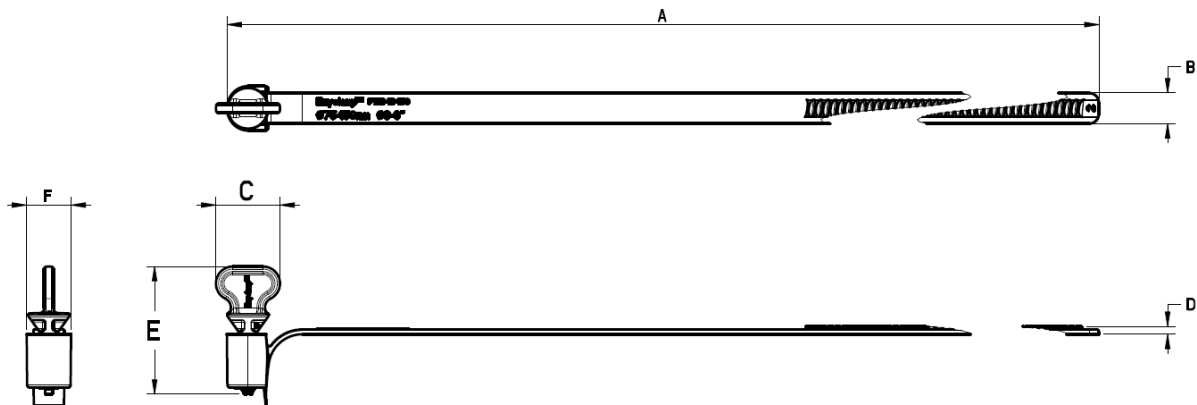
Ezyclamp™ Plastic Worm Drive Hose Clamp
12.7mm Width, 150mm Diameter, Material PA12
Part No. PWD-13-150-WG-PA12-BK

Description

Heavy duty polymer worm drive hose clamp with wing spade



Outline Dimensions (General Tolerance ± 2%)



General Properties PA12 ¹		
Property	Value	Unit
Weight	21.5 (0.76) +/- 2%	g (oz)
Maximum Diameter	158 (6.22)	mm (inch)
Minimum Diameter	76 (2.99)	mm (inch)
Length (A)	522 (20.6)	mm (inch)
Band Width (B)	12.7 (0.5)	mm (inch)
Hex Width (across flats) (C)	8.0 (0.31)	mm (inch)
Band Thickness (D)	3.3 (0.13)	mm (inch)
Head Length inc. Screw (E)	52.8 (2.08)	mm (inch)
Head Width (F)	18.4 (0.72)	mm (inch)

¹PA12 is the material code for Polyamide 12. The generic designation is Nylon 12

Main Strap - Material Properties PA12¹

Property	Dry as Moulded	Conditioned 50%RH	Unit	Test Method
Density	1.01 (0.58)		g/cm ³ (oz/inch ³)	ISO 1183
Water Absorption at 23°C Equilibrium at 50% RH		0.7	%	ISO 62
Saturation		1.6	%	ISO 62
Tensile Modulus +23°C/+73°F	1600 (232)	1100 (160)	MPa (kpsi)	ISO 527-2
Tensile Stress (Yield, +23°C/+73°F)		40 (5.8)	MPa (kpsi)	ISO 527-2
Tensile Stress (Break, +23°C/+73°F)	50 (7.3)	50 (7.3)	MPa (kpsi)	ISO 527-2
Tensile Strain (Yield, +23°C/+73°F)		12	%	ISO 527-2
Tensile Strain (Break, +23°C/+73°F)		>50	%	ISO 527-2
Flexural Modulus	1350 (196)	1100 (160)	MPa (kpsi)	ISO 178
Flexural Strength	60 (8.7)	45 (6.5)	MPa (kpsi)	ISO 178
Charpy Unnotched Impact Strength +23°C/+73°F		>100 (47.6)	KJ/m ² (ft-lb/in ²)	ISO 179
-30°C/-22°F		>100 (47.6)	KJ/m ² (ft-lb/in ²)	ISO 179
-55°C/-67°F			KJ/m ² (ft-lb/in ²)	ISO 179
Charpy Notched Impact Strength +23°C/+73°F		7 (3.33)	KJ/m ² (ft-lb/in ²)	ISO 179
-30°C/-22°F		6 (2.85)	KJ/m ² (ft-lb/in ²)	ISO 179
Heat Deflection Temperature 0.45 MPa, Unannealed	115 (239)		°C (°F)	ISO 75-2/B
Heat Deflection Temperature 1.82 MPa, Unannealed	45 (113)		°C (°F)	ISO 75-2/A
Vicat Softening Temperature 50N	154 (309)		°C (°F)	ISO 306/B
10N	166 (331)		°C (°F)	
Melting Temperature	178 (352)		°C (°F)	ISO 11357
Flammability	HB			UL 94
RoHS Compliance	RoHS Compliant			
UL File Number				

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Mechanical Tests:

Property	Test Diameter mm (inch)	System Yield Strength	Unit	Test Speed mm/s
System Tensile Test ²	100 (4)	1570 (160) [353]	N (kgf) [lbf]	10

²Tests carried out using parts and the HCL laboratory at ~20°C and ~50% RH (relative humidity) on a steel half shell pipe arrangement.

Property/ Tool Type	Max Torque Setting Nm (lb/ft)	Test Diameter mm (Inch)	Maximum System Tension after Installation	Unit
System Retention ³ Torque Driver	2.0Nm	100 (4)	1200 (122) [270]	N (kgf) [lbf]

³The system retention is the expected retention or tension after tightening and depends on tool setup and use. Surface friction and the capstan effect may produce different results.



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