



Polyamide PA12-PHL tubes

Temperature range

- 60 °C to +100 °C

Polyamide tubes are flexible and can be easily laid. They have a large temperature range and are preferred for compressed air brakes, pneumatic systems, hydraulic systems and fuel lines in accordance with DIN 73378 or in black DIN 74324. We recommend using the black model above 80 °C. The material can be recycled in accordance with the EU Directives.

Can be delivered ex warehouse

PA hoses are delivered in rolls of 50 m or 100 m fixed lengths or on drums.

* Delivery and minimum order quantity on request.

Other nominal dimensions and

Pressure utilisation degree (reference values) in %

| | | | | | | | | | |
|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|---------|
| Pressure utilisation | 100% | 87% | 74% | 64% | 57% | 52% | 47% | 44% | 36% |
| Temperature | - 60 °C to +23 °C | +30 °C | +40 °C | +50 °C | +60 °C | +70 °C | +80 °C | +90 °C | +100 °C |

Example: PA tube 8/6 - permissible Op. pressure at 50 °C (19 bar x 64%) = 12 bar permissible.

colours can be provided on request.

Colour (abbreviation)

We deliver PA hoses in:

- natural colours (nf)
- blue (bl)
- red (rt)
- black (sw)
- green (gn)
- yellow (ge)
- grey (gr)

Nominal dimensions

- AD = outer diameter
- ID = inner diameter
- (Production dimension)
- Wall thickness

Dimensions / Tolerances

AD 2.50 mm to AD 8.00 mm
+/- 0.07 mm

AD 9.00 mm to AD 13.00 mm
+/- 0.10 mm

AD 14.00 mm to AD 22.00 mm
+/- 0.15 mm

Wall thick-

| | | |
|---------------|-----|---------|
| Up to 1.00 mm | +/- | 0.10 mm |
| Up to 1.25 mm | +/- | 0.13 mm |
| Up to 1.50 mm | +/- | 0.15 mm |
| Up to 2.00 mm | +/- | 0.20 mm |



Polyamide PA12-PHL tubes ●

| Product No. | Type | Nominal dimensions | | Wall thick- ness mm | Colour | Op. pressure 20 °C bar | Min. bending radius mm | Weight g/m |
|-------------|----------|--------------------|-------|------------------------|---------|---------------------------|---------------------------|---------------|
| | | AD mm | ID mm | | | | | |
| 2120 | PA12-PHL | 2.5 | 1.5 | 0.5 | Natural | 30 | 10 | 3.2 |
| 2121 | PA12-PHL | 2.5 | 1.5 | 0.5 | Blue | 30 | 10 | 3.2 |
| 2122* | PA12-PHL | 2.5 | 1.5 | 0.5 | Red | 30 | 10 | 3.2 |
| 2123 | PA12-PHL | 2.5 | 1.5 | 0.5 | Black | 30 | 10 | 3.2 |
| 2124* | PA12-PHL | 2.5 | 1.5 | 0.5 | Green | 30 | 10 | 3.2 |
| 2125* | PA12-PHL | 2.5 | 1.5 | 0.5 | Yellow | 30 | 10 | 3.2 |
| 2126* | PA12-PHL | 2.5 | 1.5 | 0.5 | Grey | 30 | 10 | 3.2 |
| 2227 | PA12-PHL | 3 | 1.7 | 0.65 | Natural | 35 | 15 | 4.9 |
| 2228 | PA12-PHL | 3 | 1.7 | 0.65 | Blue | 35 | 15 | 4.9 |
| 2229* | PA12-PHL | 3 | 1.7 | 0.65 | Red | 35 | 15 | 4.9 |
| 2230 | PA12-PHL | 3 | 1.7 | 0.65 | Black | 35 | 15 | 4.9 |
| 2231* | PA12-PHL | 3 | 1.7 | 0.65 | Green | 35 | 15 | 4.9 |
| 2232* | PA12-PHL | 3 | 1.7 | 0.65 | Yellow | 35 | 15 | 4.9 |
| 2233* | PA12-PHL | 3 | 1.7 | 0.65 | Grey | 35 | 15 | 4.9 |
| 2001 | PA12-PHL | 4 | 2 | 1 | Natural | 44 | 20 | 9.7 |
| 2002 | PA12-PHL | 4 | 2 | 1 | Blue | 44 | 20 | 9.7 |
| 2003* | PA12-PHL | 4 | 2 | 1 | Red | 44 | 20 | 9.7 |
| 2004 | PA12-PHL | 4 | 2 | 1 | Black | 44 | 20 | 9.7 |
| 2005* | PA12-PHL | 4 | 2 | 1 | Green | 44 | 20 | 9.7 |
| 2006* | PA12-PHL | 4 | 2 | 1 | Yellow | 44 | 20 | 9.7 |
| 2007* | PA12-PHL | 4 | 2 | 1 | Grey | 44 | 20 | 9.7 |



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| Product No. | Type | Nominal dimensions | | Wall thickness mm | Colour | Op. pressure 20 °C bar | Min. bending radius mm | Weight g/m |
|-------------|----------|--------------------|-------|-------------------|---------|---------------------------|---------------------------|---------------|
| | | AD mm | ID mm | | | | | |
| 2011 | PA12-PHL | 4 | 2.3 | 0.85 | Natural | 36 | 20 | 8.7 |
| 2012 | PA12-PHL | 4 | 2.3 | 0.85 | Blue | 36 | 20 | 8.7 |
| 2013* | PA12-PHL | 4 | 2.3 | 0.85 | Red | 36 | 20 | 8.7 |
| 2014 | PA12-PHL | 4 | 2.3 | 0.85 | Black | 36 | 20 | 8.7 |
| 2015* | PA12-PHL | 4 | 2.3 | 0.85 | Green | 36 | 20 | 8.7 |
| 2016* | PA12-PHL | 4 | 2.3 | 0.85 | Yellow | 36 | 20 | 8.7 |
| 2017* | PA12-PHL | 4 | 2.3 | 0.85 | Grey | 36 | 20 | 8.7 |
| 2021 | PA12-PHL | 4 | 2.5 | 0.75 | Natural | 31 | 20 | 7.9 |
| 2022 | PA12-PHL | 4 | 2.5 | 0.75 | Blue | 31 | 20 | 7.9 |
| 2023* | PA12-PHL | 4 | 2.5 | 0.75 | Red | 31 | 20 | 7.9 |
| 2024 | PA12-PHL | 4 | 2.5 | 0.75 | Black | 31 | 20 | 7.9 |
| 2025* | PA12-PHL | 4 | 2.5 | 0.75 | Green | 31 | 20 | 7.9 |
| 2026* | PA12-PHL | 4 | 2.5 | 0.75 | Yellow | 31 | 20 | 7.9 |
| 2027* | PA12-PHL | 4 | 2.5 | 0.75 | Grey | 31 | 20 | 7.9 |
| 2031 | PA12-PHL | 4 | 2.7 | 0.65 | Natural | 23 | 20 | 7.1 |
| 2032 | PA12-PHL | 4 | 2.7 | 0.65 | Blue | 23 | 20 | 7.1 |
| 2033* | PA12-PHL | 4 | 2.7 | 0.65 | Red | 23 | 20 | 7.1 |
| 2034 | PA12-PHL | 4 | 2.7 | 0.65 | Black | 23 | 20 | 7.1 |
| 2035* | PA12-PHL | 4 | 2.7 | 0.65 | Green | 23 | 20 | 7.1 |
| 2036* | PA12-PHL | 4 | 2.7 | 0.65 | Yellow | 23 | 20 | 7.1 |
| 2037* | PA12-PHL | 4 | 2.7 | 0.65 | Grey | 23 | 20 | 7.1 |
| 2041 | PA12-PHL | 4.3 | 3 | 0.65 | Natural | 23 | 20 | 7.7 |
| 2042 | PA12-PHL | 4.3 | 3 | 0.65 | Blue | 23 | 20 | 7.7 |
| 2043* | PA12-PHL | 4.3 | 3 | 0.65 | Red | 23 | 20 | 7.7 |
| 2044 | PA12-PHL | 4.3 | 3 | 0.65 | Black | 23 | 20 | 7.7 |
| 2045* | PA12-PHL | 4.3 | 3 | 0.65 | Green | 23 | 20 | 7.7 |
| 2046* | PA12-PHL | 4.3 | 3 | 0.65 | Yellow | 23 | 20 | 7.7 |
| 2047* | PA12-PHL | 4.3 | 3 | 0.65 | Grey | 23 | 20 | 7.7 |



Polyamide PA12-PHL tubes

| Product No. | Type | Nominal dimensions | | Wall thick- ness mm | Colour | Op. pressure 20 °C bar | Min. bending radius mm | Weight g/m |
|-------------|----------|--------------------|-------|------------------------|---------|---------------------------|---------------------------|---------------|
| | | AD mm | ID mm | | | | | |
| 2051 | PA12-PHL | 5 | 3 | 1 | Natural | 34 | 25 | 12.9 |
| 2052 | PA12-PHL | 5 | 3 | 1 | Blue | 34 | 25 | 12.9 |
| 2053* | PA12-PHL | 5 | 3 | 1 | Red | 34 | 25 | 12.9 |
| 2054 | PA12-PHL | 5 | 3 | 1 | Black | 34 | 25 | 12.9 |
| 2055* | PA12-PHL | 5 | 3 | 1 | Green | 34 | 25 | 12.9 |
| 2056* | PA12-PHL | 5 | 3 | 1 | Yellow | 34 | 25 | 12.9 |
| 2057* | PA12-PHL | 5 | 3 | 1 | Grey | 34 | 25 | 12.9 |
| 2300 | PA12-PHL | 6 | 3 | 1.5 | Natural | 44 | 30 | 21.8 |
| 2301 | PA12-PHL | 6 | 3 | 1.5 | Blue | 44 | 30 | 21.8 |
| 2302* | PA12-PHL | 6 | 3 | 1.5 | Red | 44 | 30 | 21.8 |
| 2303 | PA12-PHL | 6 | 3 | 1.5 | Black | 44 | 30 | 21.8 |
| 2304* | PA12-PHL | 6 | 3 | 1.5 | Green | 44 | 30 | 21.8 |
| 2305* | PA12-PHL | 6 | 3 | 1.5 | Yellow | 44 | 30 | 21.8 |
| 2306* | PA12-PHL | 6 | 3 | 1.5 | Grey | 44 | 30 | 21.8 |
| 2061 | PA12-PHL | 6 | 4 | 1 | Natural | 27 | 30 | 16.2 |
| 2062 | PA12-PHL | 6 | 4 | 1 | Blue | 27 | 30 | 16.2 |
| 2063 | PA12-PHL | 6 | 4 | 1 | Red | 27 | 30 | 16.2 |
| 2064 | PA12-PHL | 6 | 4 | 1 | Black | 27 | 30 | 16.2 |
| 2065 | PA12-PHL | 6 | 4 | 1 | Green | 27 | 30 | 16.2 |
| 2066 | PA12-PHL | 6 | 4 | 1 | Yellow | 27 | 30 | 16.2 |
| 2067 | PA12-PHL | 6 | 4 | 1 | Grey | 27 | 30 | 16.2 |
| 2081 | PA12-PHL | 8 | 5 | 1.5 | Natural | 31 | 40 | 31.5 |
| 2082 | PA12-PHL | 8 | 5 | 1.5 | Blue | 31 | 40 | 31.5 |
| 2083* | PA12-PHL | 8 | 5 | 1.5 | Red | 31 | 40 | 31.5 |
| 2084 | PA12-PHL | 8 | 5 | 1.5 | Black | 31 | 40 | 31.5 |
| 2085* | PA12-PHL | 8 | 5 | 1.5 | Green | 31 | 40 | 31.5 |
| 2086* | PA12-PHL | 8 | 5 | 1.5 | Yellow | 31 | 40 | 31.5 |
| 2087* | PA12-PHL | 8 | 5 | 1.5 | Grey | 31 | 40 | 31.5 |



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|-------------|----------|--------------------|-------|-------------------|---------|---------------------------|---------------------------|---------------|
| | | AD mm | ID mm | | | | | |
| 2071 | PA12-PHL | 8 | 6 | 1 | Natural | 19 | 40 | 22.7 |
| 2072 | PA12-PHL | 8 | 6 | 1 | Blue | 19 | 40 | 22.7 |
| 2073 | PA12-PHL | 8 | 6 | 1 | Red | 19 | 40 | 22.7 |
| 2074 | PA12-PHL | 8 | 6 | 1 | Black | 19 | 40 | 22.7 |
| 2075 | PA12-PHL | 8 | 6 | 1 | Green | 19 | 40 | 22.7 |
| 2076 | PA12-PHL | 8 | 6 | 1 | Yellow | 19 | 40 | 22.7 |
| 2077 | PA12-PHL | 8 | 6 | 1 | Grey | 19 | 40 | 22.7 |
| 2147 | PA12-PHL | 9 | 6 | 1.5 | Natural | 27 | 45 | 36.1 |
| 2148 | PA12-PHL | 9 | 6 | 1.5 | Blue | 27 | 45 | 36.1 |
| 2149* | PA12-PHL | 9 | 6 | 1.5 | Red | 27 | 45 | 36.1 |
| 2150 | PA12-PHL | 9 | 6 | 1.5 | Black | 27 | 45 | 36.1 |
| 2151* | PA12-PHL | 9 | 6 | 1.5 | Green | 27 | 45 | 36.1 |
| 2152* | PA12-PHL | 9 | 6 | 1.5 | Yellow | 27 | 45 | 36.1 |
| 2236* | PA12-PHL | 9 | 6 | 1.5 | Grey | 27 | 45 | 36.1 |
| 2180 | PA12-PHL | 9 | 7 | 1 | Natural | 16 | 45 | 26.0 |
| 2181 | PA12-PHL | 9 | 7 | 1 | Blue | 16 | 45 | 26.0 |
| 2182* | PA12-PHL | 9 | 7 | 1 | Red | 16 | 45 | 26.0 |
| 2183 | PA12-PHL | 9 | 7 | 1 | Black | 16 | 45 | 26.0 |
| 2184* | PA12-PHL | 9 | 7 | 1 | Green | 16 | 45 | 26.0 |
| 2185* | PA12-PHL | 9 | 7 | 1 | Yellow | 16 | 45 | 26.0 |
| 2186* | PA12-PHL | 9 | 7 | 1 | Grey | 16 | 45 | 26.0 |
| 2153 | PA12-PHL | 10 | 6 | 2 | Natural | 33 | 50 | 51.8 |
| 2154 | PA12-PHL | 10 | 6 | 2 | Blue | 33 | 50 | 51.8 |
| 2155* | PA12-PHL | 10 | 6 | 2 | Red | 33 | 50 | 51.8 |
| 2156 | PA12-PHL | 10 | 6 | 2 | Black | 33 | 50 | 51.8 |
| 2157* | PA12-PHL | 10 | 6 | 2 | Green | 33 | 50 | 51.8 |
| 2158* | PA12-PHL | 10 | 6 | 2 | Yellow | 33 | 50 | 51.8 |
| 2239* | PA12-PHL | 10 | 6 | 2 | Grey | 33 | 50 | 51.8 |



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|-------------|----------|--------------------|-------|--------------------|---------|------------------------|------------------------|------------|
| | | AD mm | ID mm | | | | | |
| 2101 | PA12-PHL | 10 | 7 | 1.5 | Natural | 23 | 50 | 41.3 |
| 2102 | PA12-PHL | 10 | 7 | 1.5 | Blue | 23 | 50 | 41.3 |
| 2103* | PA12-PHL | 10 | 7 | 1.5 | Red | 23 | 50 | 41.3 |
| 2104 | PA12-PHL | 10 | 7 | 1.5 | Black | 23 | 50 | 41.3 |
| 2105* | PA12-PHL | 10 | 7 | 1.5 | Green | 23 | 50 | 41.3 |
| 2106* | PA12-PHL | 10 | 7 | 1.5 | Yellow | 23 | 50 | 41.3 |
| 2107* | PA12-PHL | 10 | 7 | 1.5 | Grey | 23 | 50 | 41.3 |
| 2251 | PA12-PHL | 10 | 7.5 | 1.25 | Natural | 19 | 60 | 35.4 |
| 2252 | PA12-PHL | 10 | 7.5 | 1.25 | Blue | 19 | 60 | 35.4 |
| 2253* | PA12-PHL | 10 | 7.5 | 1.25 | Red | 19 | 60 | 35.4 |
| 2254 | PA12-PHL | 10 | 7.5 | 1.25 | Black | 19 | 60 | 35.4 |
| 2255* | PA12-PHL | 10 | 7.5 | 1.25 | Green | 19 | 60 | 35.4 |
| 2256* | PA12-PHL | 10 | 7.5 | 1.25 | Yellow | 19 | 60 | 35.4 |
| 2242* | PA12-PHL | 10 | 7.5 | 1.25 | Grey | 19 | 60 | 35.4 |
| 2091 | PA12-PHL | 10 | 8 | 1 | Natural | 15 | 60 | 29.1 |
| 2092 | PA12-PHL | 10 | 8 | 1 | Blue | 15 | 60 | 29.1 |
| 2093* | PA12-PHL | 10 | 8 | 1 | Red | 15 | 60 | 29.1 |
| 2094 | PA12-PHL | 10 | 8 | 1 | Black | 15 | 60 | 29.1 |
| 2095* | PA12-PHL | 10 | 8 | 1 | Green | 15 | 60 | 29.1 |
| 2096* | PA12-PHL | 10 | 8 | 1 | Yellow | 15 | 60 | 29.1 |
| 2246* | PA12-PHL | 10 | 8 | 1 | Grey | 15 | 60 | 29.1 |
| 2221 | PA12-PHL | 11.5 | 9 | 1.25 | Natural | 17 | 60 | 41.5 |
| 2222 | PA12-PHL | 11.5 | 9 | 1.25 | Blue | 17 | 60 | 41.5 |
| 2223* | PA12-PHL | 11.5 | 9 | 1.25 | Red | 17 | 60 | 41.5 |
| 2224 | PA12-PHL | 11.5 | 9 | 1.25 | Black | 17 | 60 | 41.5 |
| 2225* | PA12-PHL | 11.5 | 9 | 1.25 | Green | 17 | 60 | 41.5 |
| 2226* | PA12-PHL | 11.5 | 9 | 1.25 | Yellow | 17 | 60 | 41.5 |
| 2276* | PA12-PHL | 11.5 | 9 | 1.25 | Grey | 17 | 60 | 41.5 |



Polyamide PA12-PHL tubes

| Product No. | Type | Nominal dimensions | | Wall thickness mm | Colour | Op. pressure 20 °C bar | Min. bending radius mm | Weight g/m |
|-------------|----------|--------------------|-------|-------------------|---------|---------------------------|---------------------------|---------------|
| | | AD mm | ID mm | | | | | |
| 2190 | PA12-PHL | 12 | 8 | 2 | Natural | 27 | 60 | 64.7 |
| 2191 | PA12-PHL | 12 | 8 | 2 | Blue | 27 | 60 | 64.7 |
| 2192* | PA12-PHL | 12 | 8 | 2 | Red | 27 | 60 | 64.7 |
| 2193 | PA12-PHL | 12 | 8 | 2 | Black | 27 | 60 | 64.7 |
| 2194* | PA12-PHL | 12 | 8 | 2 | Green | 27 | 60 | 64.7 |
| 2195* | PA12-PHL | 12 | 8 | 2 | Yellow | 27 | 60 | 64.7 |
| 2197* | PA12-PHL | 12 | 8 | 2 | Grey | 27 | 60 | 64.7 |
| 2111 | PA12-PHL | 12 | 9 | 1.5 | Natural | 19 | 60 | 51.0 |
| 2112 | PA12-PHL | 12 | 9 | 1.5 | Blue | 19 | 60 | 51.0 |
| 2113* | PA12-PHL | 12 | 9 | 1.5 | Red | 19 | 60 | 51.0 |
| 2114 | PA12-PHL | 12 | 9 | 1.5 | Black | 19 | 60 | 51.0 |
| 2115* | PA12-PHL | 12 | 9 | 1.5 | Green | 19 | 60 | 51.0 |
| 2116* | PA12-PHL | 12 | 9 | 1.5 | Yellow | 19 | 60 | 51.0 |
| 2117* | PA12-PHL | 12 | 9 | 1.5 | Grey | 19 | 60 | 51.0 |
| 2131 | PA12-PHL | 12 | 10 | 1 | Natural | 12 | 85 | 35.6 |
| 2132 | PA12-PHL | 12 | 10 | 1 | Blue | 12 | 85 | 35.6 |
| 2133* | PA12-PHL | 12 | 10 | 1 | Red | 12 | 85 | 35.6 |
| 2134 | PA12-PHL | 12 | 10 | 1 | Black | 12 | 85 | 35.6 |
| 2135* | PA12-PHL | 12 | 10 | 1 | Green | 12 | 85 | 35.6 |
| 2136* | PA12-PHL | 12 | 10 | 1 | Yellow | 12 | 85 | 35.6 |
| 2137* | PA12-PHL | 12 | 10 | 1 | Grey | 12 | 85 | 35.6 |
| 2159 | PA12-PHL | 14 | 11 | 1.5 | Natural | 16 | 80 | 60.7 |
| 2160 | PA12-PHL | 14 | 11 | 1.5 | Blue | 16 | 80 | 60.7 |
| 2161* | PA12-PHL | 14 | 11 | 1.5 | Red | 16 | 80 | 60.7 |
| 2162 | PA12-PHL | 14 | 11 | 1.5 | Black | 16 | 80 | 60.7 |
| 2163* | PA12-PHL | 14 | 11 | 1.5 | Green | 16 | 80 | 60.7 |
| 2164* | PA12-PHL | 14 | 11 | 1.5 | Yellow | 16 | 80 | 60.7 |
| 2165* | PA12-PHL | 14 | 11 | 1.5 | Grey | 16 | 80 | 60.7 |



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|-------------|----------|--------------------|-------|--------------------|---------|------------------------|------------------------|------------|
| | | AD mm | ID mm | | | | | |
| 2141 | PA12-PHL | 15 | 12 | 1.5 | Natural | 15 | 90 | 65.5 |
| 2142 | PA12-PHL | 15 | 12 | 1.5 | Blue | 15 | 90 | 65.5 |
| 2143* | PA12-PHL | 15 | 12 | 1.5 | Red | 15 | 90 | 65.5 |
| 2144 | PA12-PHL | 15 | 12 | 1.5 | Black | 15 | 90 | 65.5 |
| 2145* | PA12-PHL | 15 | 12 | 1.5 | Green | 15 | 90 | 65.5 |
| 2146* | PA12-PHL | 15 | 12 | 1.5 | Yellow | 15 | 90 | 65.5 |
| 2278* | PA12-PHL | 15 | 12 | 1.5 | Grey | 15 | 90 | 65.5 |
| 2201 | PA12-PHL | 15 | 12.5 | 1.25 | Natural | 13 | 90 | 55.6 |
| 2202 | PA12-PHL | 15 | 12.5 | 1.25 | Blue | 13 | 90 | 55.6 |
| 2203* | PA12-PHL | 15 | 12.5 | 1.25 | Red | 13 | 90 | 55.6 |
| 2204 | PA12-PHL | 15 | 12.5 | 1.25 | Black | 13 | 90 | 55.6 |
| 2205* | PA12-PHL | 15 | 12.5 | 1.25 | Green | 13 | 90 | 55.6 |
| 2206* | PA12-PHL | 15 | 12.5 | 1.25 | Yellow | 13 | 90 | 55.6 |
| 2208* | PA12-PHL | 15 | 12.5 | 1.25 | Grey | 13 | 90 | 55.6 |
| 2210 | PA12-PHL | 16 | 13 | 1.5 | Natural | 14 | 90 | 70.4 |
| 2211 | PA12-PHL | 16 | 13 | 1.5 | Blue | 14 | 90 | 70.4 |
| 2212* | PA12-PHL | 16 | 13 | 1.5 | Red | 14 | 90 | 70.4 |
| 2213 | PA12-PHL | 16 | 13 | 1.5 | Black | 14 | 90 | 70.4 |
| 2214* | PA12-PHL | 16 | 13 | 1.5 | Green | 14 | 90 | 70.4 |
| 2215* | PA12-PHL | 16 | 13 | 1.5 | Yellow | 14 | 90 | 70.4 |
| 2217* | PA12-PHL | 16 | 13 | 1.5 | Grey | 14 | 90 | 70.4 |
| 2171 | PA12-PHL | 18 | 14 | 2 | Natural | 17 | 100 | 103.5 |
| 2172 | PA12-PHL | 18 | 14 | 2 | Blue | 17 | 100 | 103.5 |
| 2173* | PA12-PHL | 18 | 14 | 2 | Red | 17 | 100 | 103.5 |
| 2174 | PA12-PHL | 18 | 14 | 2 | Black | 17 | 100 | 103.5 |
| 2175* | PA12-PHL | 18 | 14 | 2 | Green | 17 | 100 | 103.5 |
| 2176* | PA12-PHL | 18 | 14 | 2 | Yellow | 17 | 100 | 103.5 |
| 2177* | PA12-PHL | 18 | 14 | 2 | Grey | 17 | 100 | 103.5 |



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|-------------|----------|--------------------|-------|------------------------|---------|---------------------------|---------------------------|---------------|
| | | AD mm | ID mm | | | | | |
| 2280 | PA12-PHL | 20 | 16 | 2 | Natural | 15 | 120 | 116.5 |
| 2281 | PA12-PHL | 20 | 16 | 2 | Blue | 15 | 120 | 116.5 |
| 2282* | PA12-PHL | 20 | 16 | 2 | Red | 15 | 120 | 116.5 |
| 2283 | PA12-PHL | 20 | 16 | 2 | Black | 15 | 120 | 116.5 |
| 2284* | PA12-PHL | 20 | 16 | 2 | Green | 15 | 120 | 116.5 |
| 2285* | PA12-PHL | 20 | 16 | 2 | Yellow | 15 | 120 | 116.5 |
| 2286* | PA12-PHL | 20 | 16 | 2 | Grey | 15 | 120 | 116.5 |
| 2290 | PA12-PHL | 22 | 18 | 2 | Natural | 13 | 150 | 129.4 |
| 2291 | PA12-PHL | 22 | 18 | 2 | Blue | 13 | 150 | 129.4 |
| 2292* | PA12-PHL | 22 | 18 | 2 | Red | 13 | 150 | 129.4 |
| 2293 | PA12-PHL | 22 | 18 | 2 | Black | 13 | 150 | 129.4 |
| 2294* | PA12-PHL | 22 | 18 | 2 | Green | 13 | 150 | 129.4 |
| 2295* | PA12-PHL | 22 | 18 | 2 | Yellow | 13 | 150 | 129.4 |
| 2296* | PA12-PHL | 22 | 18 | 2 | Grey | 13 | 150 | 129.4 |