

P&C® Duct & Telephone Duct – Specification

Physical Properties of P&C® Duct by ASTM Test Methods

| Property | ASTM No. | Typical Values | |
|--|----------|----------------|----------------|
| | | P&C Duct | Telephone Duct |
| Tensile strength, psi | D638 | 4,800 | 4,800 |
| Modulus of elasticity in tension, psi | D638 | 500,000 | 500,000 |
| Flexural strength, psi | D790 | 11,000 | 11,000 |
| Deflection temp under load at 265 psi deg. C | D648 | 72°C | 72°C |
| Coefficient of thermal expansion in/in/°F | D696 | 3.30 x 10-5 | 3.30 x 10-5 |
| Coefficient of static friction | | 0.20 | 0.20 |

Collapse Pressure of P&C Duct Materials (PSI)

| | |
|------------------|------------------|
| 2" EB-20 – 11.2 | 4" DB-60 – 17.0 |
| 2" EB-35 – 11.2 | 4" DB-120 – 36.6 |
| 2" DB-60 – 11.2 | 5" EB-20 – 5.9 |
| 2" DB-120 – 26.6 | 5" EB-35 – 10.3 |
| 3" EB-20 – 6.6 | 5" DB-60 – 18.9 |
| 3" EB-35 – 8.2 | 5" DB-120 – 38.2 |
| 3" DB-60 – 15.2 | 6" EB-20 – 6.1 |
| 3" DB-120 – 34.0 | 6" EB-35 – 11.2 |
| 4" EB-20 – 6.7 | 6" DB-60 – 19.6 |
| 4" EB-35 – 9.2 | 6" DB-120 – 38.0 |

Collapse Pressure of Telephone Duct Materials (PSI)

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|--------------------|
| Type B Duct – 9.2 |
| Type C Duct – 36.6 |
| Type D Duct – 36.6 |

Performance Properties of P&C Duct as Indicated per NEMA Standard TC-6 & 8 and ASTM F-512

Pipe Stiffness lb/in/in

| Conduit Series | Minimum Pipe Stiffness Conduit Series (F/Δy), all sizes |
|----------------|---|
| EB-20 | 20 |
| EB-35 | 35 |
| DB-60 | 60 |
| DB-100 | 100 |
| DB-120 | 120 |

Minimum Impact Resistance at 0°C (32°F) ft • lbf

| Nominal Size | EB-20 | EB-35 | DB-60 | DB-100 | DB-120 |
|--------------|-------|-------|-------|--------|--------|
| 1 | – | – | – | – | 10 |
| 1-1/2 | – | – | 10 | – | 15 |
| 2 | 20 | 20 | 20 | – | 25 |
| 3 | 20 | 30 | 40 | 45 | 50 |
| 3-1/2 | 20 | 35 | 50 | 60 | 65 |
| 4 | 25 | 40 | 60 | 70 | 80 |
| 5 | 30 | 55 | 85 | 100 | 110 |
| 6 | 40 | 75 | 120 | 135 | 150 |

Performance Properties of Telephone Duct as Indicated per NEMA Standard TC-10

Pipe Stiffness F/Δy lb/in/in

| Nominal Size | B-Duct | HWB | C-Duct | D-Duct |
|--------------|--------|-----|--------|--------|
| All | 30 | 40 | 120 | 120 |

Minimum Impact Resistance at 32°C ft. lb.

| B-Duct | C-Duct | D-Duct |
|--------|--------|--------|
| 25 | 50 | 50 |