

**TRISTAR® PC-10R-(V6)**

PC

Amco Polymers

| Processing/Physical Characteristics | Value | Unit    | Test Standard |
|-------------------------------------|-------|---------|---------------|
| <b>ASTM Data</b>                    |       |         |               |
| Melt Flow Index, MFI                | 6     | g/10min | ASTM D 1238   |
| Temperature                         | 300   | °C      | -             |
| Load                                | 1.2   | kg      | -             |

| Mechanical properties       | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Strength at Yield   | 62.1  | MPa  | ASTM D 638    |
| Elongation at Break         | 120   | %    | ASTM D 638    |
| Flexural Modulus            | 2137  | MPa  | ASTM D 790    |
| Rockwell Hardness           | R 120 | -    | ASTM D 785    |
| Izod Impact notched, 1/8 in | 801   | J/m  | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard  |
|--|-------|-------|----------------|
| <b>ISO Data</b>                          |       |       |                |
| Temp. of deflection under load, 1.80 MPa | 137   | °C    | ISO 75-1/-2    |
| Glow Wire Flammability Index (GWFI)      | 960   | °C    | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (GWIT)    | 777   | °C    | IEC 60695-2-13 |
| <b>ASTM Data</b>                         |       |       |                |
| UL 94 Flame rating                       | V-2   | -     | UL 94          |
| Thickness tested                         | 1.52  | mm    | -              |
| Coefficient of Thermal Expansion, MD     | 70.2  | E-6/K | ASTM D 696     |
| Coefficient of Thermal Expansion, TD     | 68.4  | E-6/K | ASTM D 696     |
| DTUL @ 264 psi                           | 135   | °C    | ASTM D 648     |

| Electrical properties                | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| <b>ASTM Data</b>                     |       |      |               |
| Arc Resistance                       | 90    | s    | ASTM D 495    |
| <b>Other Standards<sup>[S]</sup></b> |       |      |               |
| Comparative tracking index           | 325   | -    | UL 746A       |

S: These properties are reported by the producer according standards that are different to our defaults.

| Other properties       | Value | Unit              | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 0.15  | %                 | ASTM D 570    |
| Density                | 1200  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value        | Unit | Test Standard |
|---|--------------|------|---------------|
| Pre-drying - Temperature                    | 121          | °C   | -             |
| Pre-drying - Time                           | 3 - 4        | h    | -             |
| Melt temperature                            | 316 - 343    | °C   | -             |
| Mold temperature                            | 82.2 - 116   | °C   | -             |
| Zone 1                                      | 288 - 304    | °C   | -             |
| Zone 2                                      | 299 - 321    | °C   | -             |
| Zone 3                                      | 316 - 338    | °C   | -             |
| Nozzle temperature                          | 304 - 332    | °C   | -             |
| Screw speed                                 | 40 - 70      | rpm  | -             |
| Injection pressure                          | 110 - 152    | MPa  | -             |
| Back pressure                               | 0.345 - 1.38 | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Certifications**

RoHS compliant

**Delivery form**

Pellets

**Applications**

Electrical and Electronical

**Additives**

Release agent

**Regional Availability**North America, Europe, Asia Pacific, South and Central America,  
Near East/Africa**Special Characteristics**

U.V. stabilized or stable to weather