

TRISTAR® PC-10FR-HCCL02

PC

Amco Polymers

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 15 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Mold Shrinkage, MD | 0.006 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 62.1 | MPa | ASTM D 638 |
| Elongation at Break | 75 | % | ASTM D 638 |
| Flexural Modulus | 2213 | MPa | ASTM D 790 |
| Rockwell Hardness | R 120 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 641 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 137 | °C | ISO 75-1/-2 |
| Burning behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 3.0 | mm | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (GWIT) | 777 | °C | IEC 60695-2-13 |
| ASTM Data | | | |
| UL 94 Flame rating | V-1 | - | 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 | 121 | °C | ASTM D 648 |
| Limiting Oxygen Index | 37 | % | ASTM D 2863 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1230 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|--------------|------|---------------|
| Pre-drying - Temperature | 121 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 287 - 303 | °C | - |
| Mold temperature | 71.1 - 93.3 | °C | - |
| Zone 1 | 260 - 281 | °C | - |
| Zone 2 | 270 - 281 | °C | - |
| Zone 3 | 281 - 298 | °C | - |
| Nozzle temperature | 276 - 292 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Injection pressure | 68.9 - 124 | MPa | - |
| Back pressure | 0.345 - 1.38 | MPa | - |

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Release agent

Certifications

RoHS compliant

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics

Flame retardant, Halogen-free, Transparent