

**TRISTAR® PC-10R-CL(6)**

PC

Amco Polymers

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>6</b>	g/10min	ASTM D 1238
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>62.1</b>	MPa	ASTM D 638
Elongation at Break	<b>150</b>	%	ASTM D 638
Flexural Modulus	<b>2413</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 120</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>907</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>137</b>	°C	ISO 75-1/-2
Glow Wire Flammability Index (GWFI)	<b>960</b>	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	<b>777</b>	°C	IEC 60695-2-13
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-2</b>	-	UL 94
Thickness tested	<b>1.52</b>	mm	-
Coefficient of Thermal Expansion, MD	<b>70.2</b>	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	<b>68.4</b>	E-6/K	ASTM D 696
DTUL @ 264 psi	<b>129</b>	°C	ASTM D 648
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Arc Resistance	<b>90</b>	s	ASTM D 495
<b>Other Standards<sup>[S]</sup></b>			
Comparative tracking index	<b>325</b>	-	UL 746A
S: These properties are reported by the producer according standards that are different to our defaults.			
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	<b>1</b>	%	ASTM D 1003
Light Transmittance	<b>89</b>	%	ASTM D 1003
Index of Refraction	<b>1.59</b>	-	ASTM D 542
<b>Other properties</b>			
Water Absorption, 24hr	<b>0.15</b>	%	ASTM D 570
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>121</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>316 - 343</b>	°C	-
Mold temperature	<b>82.2 - 116</b>	°C	-
Zone 1	<b>288 - 304</b>	°C	-
Zone 2	<b>299 - 321</b>	°C	-
Zone 3	<b>316 - 338</b>	°C	-
Nozzle temperature	<b>304 - 332</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Injection pressure	<b>110 - 152</b>	MPa	-
Back pressure	<b>0.345 - 1.38</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Transparent

**Certifications**

RoHS compliant

**Applications**

Electrical and Electronical

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