

TRISTAR® PC-10R-CL(22)

PC

Amco Polymers

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	22	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mechanical properties			
ASTM Data			
Tensile Strength at Yield	60.3	MPa	ASTM D 638
Elongation at Break	120	%	ASTM D 638
Flexural Modulus	2413	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/8 in	747	J/m	ASTM D 256
Thermal properties			
ISO Data			
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
ASTM Data			
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	127	°C	ASTM D 648
Electrical properties			
ASTM Data			
Arc Resistance	90	s	ASTM D 495
Other Standards^[S]			
Comparative tracking index	325	-	UL 746A
S: These properties are reported by the producer according standards that are different to our defaults.			
Optical properties			
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003
Index of Refraction	1.59	-	ASTM D 542
Other properties			
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	121	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	260 - 282	°C	-
Mold temperature	71.1 - 93.3	°C	-
Zone 1	243 - 260	°C	-
Zone 2	249 - 260	°C	-
Zone 3	260 - 271	°C	-
Screw speed	40 - 70	rpm	-
Injection pressure	51.7 - 124	MPa	-
Back pressure	0.345 - 1.38	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