TRISTAR® PC-10GFR-(V)

PC-GF10 Amco Polymers

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.003**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**62**	MPa	ASTM D 638
Elongation at Break	**15**	%	ASTM D 638
Flexural Modulus	**3103**	MPa	ASTM D 790
Rockwell Hardness	**R 120**	-	ASTM D 785
Izod Impact notched, 1/8 in	**107**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**2.3**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	**877**	°C	IEC 60695-2-13
ASTM Data			
UL 94 Flame rating	**V-0**	-	UL 94
Thickness tested	**1.52**	mm	-
DTUL @ 264 psi	**138**	°C	ASTM D 648
Limiting Oxygen Index	**37**	%	ASTM D 2863

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**18.9**	kV/mm	ASTM D 149
Volume Resistivity	**3E15**	Ohm*cm	ASTM D 257
Arc Resistance	**60**	s	ASTM D 495
Other Standards[S]			
Comparative tracking index	**175**	-	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	**0.12**	%	ASTM D 570
Density	**1250**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**121**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**282 - 304**	°C	-
Mold temperature	**71.1 - 93.3**	°C	-
Zone 1	**254 - 274**	°C	-
Zone 2	**266 - 277**	°C	-
Zone 3	**277 - 293**	°C	-
Nozzle temperature	**271 - 293**	°C	-
Screw speed	**40 - 70**	rpm	-
Injection pressure	**75.8 - 124**	MPa	-
Back pressure	**0.345 - 1.38**	MPa	-

Characteristics

Processing	Certifications
Injection Molding	RoHS compliant

Delivery form
Pellets

Additives
Release agent

Special Characteristics
U.V. stabilized or stable to weather

Applications
Electrical and Electronical

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